

The CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

FEBRUARY 5 1955





Every tin of **POTTER'S PASTILLES**

you sell carries inside it full details of these other **Potter's** lines . . .

POTTER'S ASTHMA REMEDY

The renowned method of relieving Asthma, Hay Fever or Bronchitis. Simple to use with special Dispenser and directions with each tin.

POTTER'S ASTHMA CIGARETTES:

Smoked by many asthmatics and bronchial sufferers.

POTTER'S ASTHMA SMOKING

MIXTURE: Very popular amongst users of Potter's Asthma Remedy for gaining relief any time, anywhere.

ANTEXEMA (LIQUID):

Quick-acting, soothing antiseptic in cases of Eczema, Insect Bites, Acne, Chafed Skin, Pimples and similar minor skin complaints.

ANTEXEMA GRANULES:

Purify the blood and aid skin recovery. Help prevent skin disorders like Boils, Festers, Skin Abscesses, Whitlows and Poisoned Cuts.

THOMPSON'S SLIPPERY ELM FOOD:

Potter & Clarke's BIGGEST SELL-ING LINE. Makes a delicious, nourishing and very digestible food, especially for children and invalids. In 3 varieties: MALTED, UNMALTED and WHOLEMEAL in 1 lb, and 2 lb, tins.

THOMPSON'S DANDELION COFFEE:

Recommended for those for whom ordinary coffee (or tea) is inadvisable. Particularly valuable in cases of atonic dyspepsia.

Also Dandelion Coffee Essence.

CHAMELEON OILS (FOR HUMAN USE):

A dependable liniment for many aches and pains, including Rheumatism Sciatica, Lumbago, Sprains, etc.

CHAMELEON OILS (VETERINARY)

The booklet enclosed describes ailments of horses, sheep, cattle and dogs which this liniment successfully treats

the effect is to create a large **potential market** for these lines

Not only do Potter's Catarrh Pastilles and Crystallised Pastilles contain this interesting inter-product leaflet, but so do many of the other Potter's lines listed above. The snowball effect is obvious. In other words POTTER'S SALES MAKE SALES. All these lines are available from your usual wholesaler WHO CAN SUPPLY YOU IMMEDIATELY.

POTTER & CLARKE

The famous CHAMELEON

LIMITED

RIVER ROAD · BARKING · ESSEX

Telephone: RIPpleway 3041
Telegrams: Horehound Phone Barking

THE BEST BUYON THE MARKET!



'Rhodia'

BRAND Société des Usines Chimiques Rhône-Poulenc PARIS

ADRENALINE

AMIDOPYRINE

ANEURINE HYDROCHLOR

ASPIRIN

CAFFEINE

FORMIC ACID

GLYCEROPHOSPHATES

GUAIACOLS

IODIDES

LACTIC ACID

P.A.S.

PENICILLIN

PHENOBARBITONE

PIPERAZINE

POTASSIUM PERMANGANATE

POTASSIUM GUAIACOL SULPHONATE

PHENAZONE

PROCAINE

RESORCINE

SALICYLATES

STREPTOMYCINE

THEOBROMINE

THEOPHYLLIN

UNDECYLENATES

and their salts and derivatives

HYDROQUINONE

METOL

VANILLIN

COUMARIN ETHYL-VANILLIN

SILICONES

VINYL RESINS

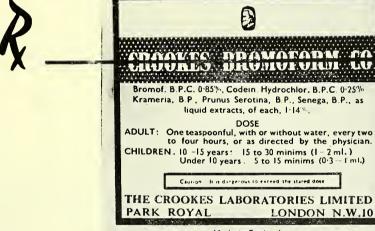
R. W. GREEFF & CO., LTD.

12 FINSBURY CIRCUS, LONDON, E.C.2

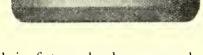
WIŘES: GREEFF, AVE, LONDON

THE ROYAL EXCHANGE, MANCHESTER BLACKFRIARS 9407-8 WIRES: GREEFF, MANCHESTER





Made in England



Crookes Bromoform Co. will, in future, be known under its new registered trade name BROMODEINE. Pleasant to take—suitable for young and old alike, BROMODEINE combines an anti-spasmodic with a sedative action, thus controlling the cough without eliminating the cough reflex.

NEW REDUCED PRICES become operative immediately.

Bottles: 2 oz. 4/1d, 4 oz. 7/-, 16 oz. 22/-, 80 oz. 104/-.

BROMODEINE





Literature on request





this FREE

There is goodwill in good goods... Service, too, assures success... Over-Send for heads cannot be entirely overcome, but the over-dress of staff has a prestige appeal to all potential purchasers... Over-dress means Overalls - and the finest come from Gardiner's . . . Finest Catalogue in material, cut and style—finest in the matter of sheer money's-worth... Send, please, for our new fully-illustrated and comprehensive catalogue and price list ... Smart, stylish Overalls impress all customers . . . Gardiner's means gain!

	Gardiner & Co. (The Scotch House) Ltd.,
(Dept. OS. 10)), I, 3 & 5, Commercial Road, London, E.I
Please dispa	tch by return post, a free copy of your
24 page Over	rall Catalogue and price list.

NAME

BLOCK CAPITALS PLEASE

ADDRESS

THIS COUPON



GIVE maximum immunity in a safe and simple 5-day course. Discounts of $33\frac{1}{3}\%$ and a bonus of 13 to the dozen are again offered.



STOCK UP NOW!

From your usual Wholesaler

SOUTHON **LABORATORIES** LTD.

84-88 UPPER RICHMOND ROAD, LONDON, S.W.15



CREATE RECORD SALES FOR CHEMISTS

H, pak Nursery Bags keep Baby's feeding utensils, clothes, toys and bed linen completely protected from all germs, dust, dirt and dampness. They're ideal too for carrying soiled nappies and clothes when -ravelling or visiting. Mothers have been quick to realise the advantages of this new line which is marking up record sales in Chemists everywhere. Retail price is 4/9 per pack. Retail price is 4/9 per pack (Inc. P.T.)

To HYPAX DIVISION of The OPPENHEIMER CASING Co. (U.K.) Ltd.,

159-165 Harrow Road, London, W.2 Tel: PADdington 7431 ... (insert Retailer or Wholesaler) I am interested in HYPAK Nursery Bags.

(C&D 5/2/55) Scottish Sales Depôt: Thornybauk, Fountainbridge, Edinburgh, 3

Telephone: Fountainbridge 1403

INDEX TO ADVERTISERS

Addis, Ltd. 45 Allen & Hanburys, Ltd. Cover i Askit, Ltd. 42 Associated Newspapers, Ltd. 27	Cresswell Brothers Sponges36Crookes Laboratories, Ltd., The3Crosskill, C. R., & Sons, Ltd.Leader PageCussons Sons & Co., Ltd.Cover iiiCuticura Preparations37
Bailey, Robert, & Son, Ltd. 34 Beatson, Clark & Co., Ltd. 32 Benger's, Ltd. 11 Bird, Alfred, & Sons, Ltd. 9	Daniel, Richard, & Son, Ltd. 13 Duncan, Flockhart & Co., Ltd. 37
Birmingham Chemical Co., Ltd., The	Edme, Ltd
British Drug Houses, Ltd., The	Fish Optical Co., LtdLeader Page
Burrough, James, Ltd. Leader Page Burroughs Wellcome & Co. 31	Gardiner & Co. (The Scotch House), Ltd. 4 G.B. Equipments, Ltd. 1 Gerard Bros., Ltd. 20 Gerhardt, C. F., Ltd. 44
Calfos, Ltd. 38 Cannon Rubber Manufacturers, Ltd. 40 Carnegies of Welwyn, Ltd. 5	Gibson, Robert, & Sons, Ltd. 36 Glaxo Laboratories, Ltd. Interleaved Edit., 147 Goodall, Backhouse & Co., Ltd. 13
Carr's Flour Mills, Ltd. Leader Page Carter, H. W., & Co., Ltd	Greeff, R. W., & Co., Ltd. 2 Guerlain, Ltd. 22
Chemist & Druggist Art of Dispensing	Harley, T., Ltd. Leader Page Hawker & Co. 32 Hinders, Ltd. 50
Coates & Cooper, Ltd. 38 Colby Products, Ltd. 46 Compressed Paper Packing, Ltd. 33	Hotchkiss, H. G., Essential Oil Co., The
Cox, Arthur H., & Co., Ltd	(continued overleaf)

From the Carnegie Range of Fine Chemicals

ADRENALINE B.P.

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)

INDEX (cont.)	Priory Laboratories, Ltd. 25 Pritchards, Ltd. 8
Ilford, Ltd. 43 Illingworth, E., & Co. (Bradford), Ltd. 29 Industrial Appliances, Ltd. 17 Inecto Inquiry Bureau 20	Racasan, Ltd.23Rankin Brothers & SonsLeader PageRansom, William, & Son, Ltd.18Reed, Kenneth & Co., Ltd.32
Jarvie, H., & Co., Ltd. 35 Jeffreys, Miller & Co., Ltd. 34 Jobling, James A., & Co., Ltd. 44 Johnson & Johnson (Gt. Britain), Ltd. 19	Ribbands, C., & Son Classified Section Richard Electric Shaver 10 Rose, J. L., Ltd 26 Roxy Bathing Caps 48
Kearsley, C. G., Ltd.48Kellys, John (London), Ltd.46Kimpton Brothers, Ltd.47	Scholl Manufacturing Co., Ltd., The
Laboratory Nativelle, Ltd. Lcader Page Lastonet Products, Ltd. 48 Leigh & Sons Metal Works, Ltd. 32 Leslies, Ltd. 24 London Commercial Electrical Stores, Ltd. 24 L.P.C. Chemicals & Dyes, Ltd. 6	Surgical Hosiery Co., Ltd. 36 Teasdale & Co., Ltd. 22 Thermos (1925), Ltd. 22 Thompson & Capper Wholesale, Ltd. 21 Thornton & Ross, Ltd. 26
Markwell, Edwards & Co., Ltd. Leader Page Matthews, Stephen, & Co., Ltd. 10 Maw, S., Son & Sons, Ltd. 42 Menley & James, Ltd. 28	Tintex Dyes, Ltd. 22 Trapow, D., & Co., Ltd. 33 Vernon & Co., Ltd. 42 Vocalzone, Ltd. 16
'Myers of Old Street'	Warner, William R., & Co., LtdInterleaved Edit., 148 Whiffen & Sons, Ltd
Oppenheimer Casing Co. (U.K.), Ltd., The	Wiles, C., Ltd. 48 Wimsol, Ltd. Leader Page Wright, Layman & Umney, Ltd. 30 Zimmermann, Charles, & Co., Ltd. 51
Total & Clarke, EtcCover II	Zimmermann, Charles. & Co., Ltd

The Fine Chemical and Pharmaceutical Division of L.P.C. Chemicals and Dyes Limited 37/38 FENCHURCH ST., LONDON, E.C.3.

SOLE IMPORTERS AND DISTRIBUTORS FOR CHR. EMBORG A/S COPENHAGEN



Announce DANAD



VITAMIN A & D PEARLS

Tasteless · Non Repeating · Eaten like a sweet · Ideal for all ages.

PACKS		COST	PROFIT	%
BASIC	$\begin{array}{ccc} 7 & \times & 100 \\ 12 & \times & 25 \end{array}$	47/9	34/9	72%
BONUS A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	87/-	83/-	95%
BONUS B	25 × 100	93/6	94/-	100%
BONUS C	72 × 25	90/-	90/-	100%

NEW UNIQUE RIBENA

Consumer Press Advertising

This is a true story!



Satisfied users tell in pictures and story why they take Ribena.

Ribena is a 'must' this winter for your customers—to protect their families from Colds and Flu.

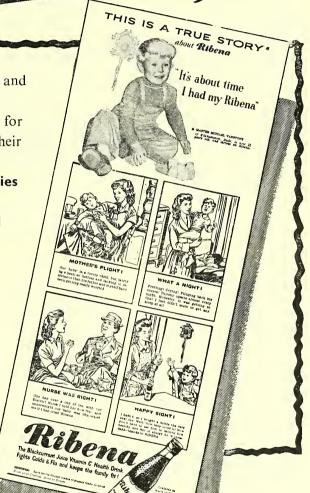
In National Dailies, Weeklies and Monthlies, 600,000,000 advertisements in 1955 will

sell more and more RIBENA for you ... If you Display it and Recommend it.

Are your stocks adequate if Flu develops suddenly?

Order now from your Wholesaler.

Each bottle you sell puts at least 8d profit in your till

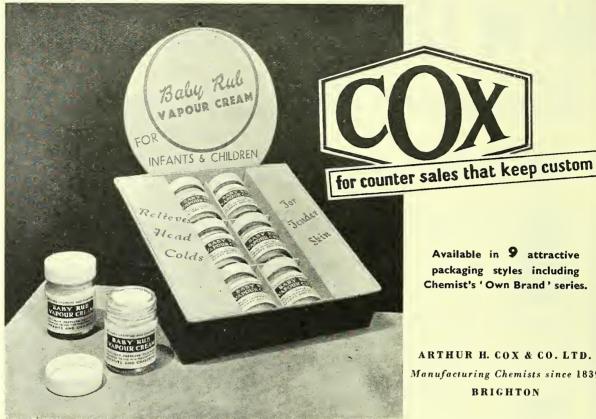


Ribena

fights fatigue

Write for new Counter and Window Show Card to :-

CARTERS OF COLEFORD, (Glos.) Tel: Coleford 3201-6



Available in 9 attractive packaging styles including Chemist's 'Own Brand' series.

ARTHUR H. COX & CO. LTD. Manufacturing Chemists since 1839 BRIGHTON

ITCHARDS



HOME DISINFECTANT

An attractive Counter Display shows this powerful disinfectant to your customers. Many household uses as germicide and general disinfectant. Pleasant and refreshing.

Price-8 oz. bottle I/-. 16 oz. bottle 1/9.

D.D.T. SPRAY-A-MIST **KILLS ALL INSECT PESTS**



Profit by the demand for this handy Plastic Sprayer designed specially for use with Pritchards D.D.T. Fly Spray which is scented, refreshing, hygienic and safe. Attractively packed in Display Cartons of ½ Dozen Outfits with sales literature etc. Extra refills, 8 oz.—3 Dozen and I Dozen Displays.

Price 3/9 Complete

MAKES HOME Sweet HOME

A pleasantly scented moth repellent Deodorant, Attractively presented in Cottage Holder Dispenser. Packed in Display Cartons containing I dozen. Sells on sight. Price | J- each.

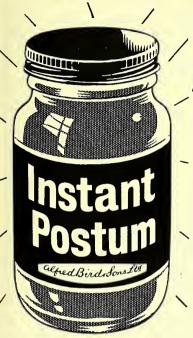


ORDER NOW FROM YOUR WHOLESALER



RITCHARDS TRUSTY PRODUCTS BACKED BY
100 YEARS EXPERIENCE

UP-UP-UP GO THE SALES OF BIRD'S 2/6d. BEDTIME DRINK!



Instant Postum keeps on climbing

It's nightcap weather now, and Bird's Instant Postum is meeting the nation-wide demand for a nightcap drink that's really economical.

Retailing at 2/6 a 50-cup jar, it's selling like hot cakes. Everywhere sales are up...up, ...up, and still climbing. The last quarter of 1954 was the most successful ever—and the sales barometer is "set fair" for 1955!

What's more, famous people like TV star Elizabeth Allan and racing motorist Sheila Van Dam, are selling Instant Postum for you in a big advertising campaign!

But, let's face it, quite a few retailers are missing this great opportunity. They've let their stocks run down. Make sure you're not one of them: there's a wonderful profit opportunity for you in Instant Postum.

DRAMATIC ADVERTISEMENTS

appearing in all these papers are selling Instant Postum

News of the World Sunday Pictorial Daily Herald Daily Mirror People

Empire News Week-end Mail Revnolds News

Reveille Tit-Bits

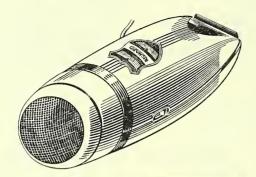
Ask your wholesaler about

INSTANT POSTUM

or write to Alfred Bird and Sons Ltd., Devonshire Works, Birmingham 12.



YOU WILL BE INTERESTED in these facts about the





SWISS HIGH PRECISION

ELECTRIC SHAVER

- ★ TWO SEPARATE HEADS—THE SHAV-ING HEAD. Self-sharpening blade, under multi-holed steel grille, gives world's closest and smoothest shave.
- ★ THE CLIPPER HEAD deals with all long hairs, trims moustaches, beard and back of neck, safely removes superfluous hair.
- ★ A/C & D/C all-voltage Commutator Brush motor.
- ★ Fitted T/V and Radio interference suppressors.
- ★ Backed by NATIONAL ADVERTISING
 —and 12 MONTHS GUARANTEE!
- ★ Point-of-sale displays available. Special terms granted for limited quantity of demonstration models.
- ★ Fully equipped service departments in all countries throughout the world.
- ★ Precision engineered with the same skill that has made the Richard watch famous throughout the world.

RICHARD

The only complete electric shaver swift-simple - safe

3 mods.: Universal model 100/120 200/240 AC/DC ... £8.19.0 Home mod.: 203/240 AC/DC £8.19.0 Car mod.: 6/12 volts AC/DC £9.12.6



All trade enquiries to:

B. H. RIES LTD. 19-21 HATTON GARDEN, E.C.I

Now in Tablets as well as in Capsules

In response to persistent requests from Rheumatic sufferers who learned the merits of Curicones in its Warenforced form of compressed tablets, we are now producing supplies in that form.

Our Retail friends will be well advised to keep stocks of both Capsules and Tablets.

Prices, terms and profits are the same for both. Please order through your wholesaler.



Still the most reliable remedy for Rheumatism.

And also a larger economy size of

ARTHROIDS BALM

We are also introducing a larger size of Arthroids Balm in jars to retail at $3/8\frac{1}{2}$ inc. P.T. to replace the $2/7\frac{1}{2}$ tube.

Trade Price 28/2 per doz.

STEPHEN MATTHEWS & CO. LTD. 19/21 Farringdon Street : London : E.C.4.



AND







Choice of 3 bonus parcels for 14 days' display

Send in today for Benger's big bonus offer! Choose which parcel you want. You will then receive a selection of the attractive new display material shown above - material which is closely-linked to the forceful and widespread Benger's advertising now appearing in National newspapers and magazines. You display the material for 14 days - or, alternatively, we will arrange to install the complete window-display in your window.

	PARCELS	BONUS PRICE	BONUS
Α	1 doz. No. 0 (2/9) ½ doz. No. 1 (4/9)	£2.6.9	5%
В	2 doz. No. 0 (2/9) 1 doz. No. 1 (4/9)	£4.11.0	7½%
С	3 doz. No. 0 (2/9) 2 doz. No. 1 (4/9)	£7.13.5	10%

Send in to the address below, giving the name of your usual wholesaler. Offer closes Feb. 28th, 1955

Nothing else works like Benger's



NEW TRANSCUTANEOUS TREATMENT for RHEUMATIC DISORDERS

After big American success..

BRITISH MADE

POLYESTOL

TRANSPARENT Pain Relieving

BANDAGE

is moving into the Home Market again, backed with a

STEADY ADVERTISING CAMPAIGN

"Daily Herald," "News Chronicle," "Picture Post," "Sunday Companion," are included with other important National Magazines in the steady advertising campaign being launched in February, for this well-priced line. Over 14 million people are being told of its amazing pain relieving properties, and are being urged to ask for it at all Chemists.

Why Polyestol is so Beneficial

Polyestol Methyl Salicylate Bandage bound round the affected part of the body gives instant and prolonged Splendid results in the relief of:

ARTHRITIS

Rheumatic conditions including Fibrositis, Neuritis,

Sciatica, Lumbago Also sprains, strains and stiffness



relieves the pain immediately and the therapeutic pressure of the Bandage massages the valuable medicinal vapours into the system, where they remain 24 hours after the bandage has been removed.

Over 50 hours effective treatment in each Polyestol Bandage—afterwards it can be used as a support bandage indefinitely making it the cheapest elastic bandage on the market. Many testimonials from the Medical Profession prove its efficacy.

Polyestol Bandages stay "put" and will not slip.

Full Profit Margin

You can recommend it with complete confidence—and remember it shows you a full profit margin. Retail price 5/3d. a roll inc. Tax. Packed 1 doz. 36/- plus 9/- P.T.

Order at once through your wholesaler, but in difficulty—or for further medical particulars, write to:-

Oldham Laboratories Ltd., South St., Chichester, Sussex.



GALENICALS for WINTER DISPENSING

Manufactured under strict supervision from finest quality ingredients.

RICHARD DANIEL & SON LTD.

MANUFACTURING CHEMISTS

MANSFIELD ROAD DERBY. TEL.: 48266 (4 lines)

And at GROSVENOR ST., ASHTON-u-LYNE. Tel.: 2816 (3 lines)

For you a Golden Egg!

Every year about this time,

millions of hens are laying eggs in almost embarrassing quantities. For you they can lay a golden one!

Eggs will rise in price again! So you can't afford to take risks. Take stock now to meet the

increasing demand for Goodall's Waterglass.

It pays to stock, display and push Goodall's

Waterglass and to help you we offer

this colourful Showcard free with every order.

Full strength 140° T.W. In leak-proof all-tin containers or composite drums

It's good business to sell . . .



GOODALL BACKHOUSE and CO. LTD. LEEDS, 1 Sole proprietors of the fomous Yorkshire Relish

IN YOUR LOCAL NEWSPAPER

COMMENCING 7th FEBRUARY

in the following:

LONDON

BELFAST BIRKENHEAD BIRMINGHAM BOLTON **BOGNOR REGIS** BOURNEMOUTH **BRADFORD BRIGHTON BRISTOL** CARDIFF CHESTERFIELD COVENTRY DARLINGTON DONCASTER **EDINBURGH EXETER FOLKESTONE GLASGOW** GLOUCESTER **HARROGATE** HUDDERSFIELD HULL **IPSWICH** LEAMINGTON SPA LEEDS LEICESTER LINCOLN LIVERPOOL **MANCHESTER NEWCASTLE** NORTHAMPTON NORWICH NOTTINGHAM PRESTON RUGBY SALISBURY SHEFFIELD SOUTHAMPTON SOUTHEND STOCKPORT TAUNTON TORQUAY WALSALL WOLVERHAMPTON WORCESTER YARMOUTH YORK

Evening News Evening Standard The Star Evening Telegraph News **Evening Mail Evening News** Post Echo Telegraph Herald **Evening Post** Echo Derbyshire Times Telegraph Despatch Gazette **Evening News** Express Herald **Evening Times** Citizen Advertiser Examiner Daily Mail **Evening Star** Courier **Evening Post** Mercury Echo Echo Evening News Evening Chronicle Chronicle Evening News **Evening Post Evening Post** Advertiser Times Star Echo Standard Express Gazette Herald Observer Express **Evening News** Mercury

N.H.S. (E.C.10)

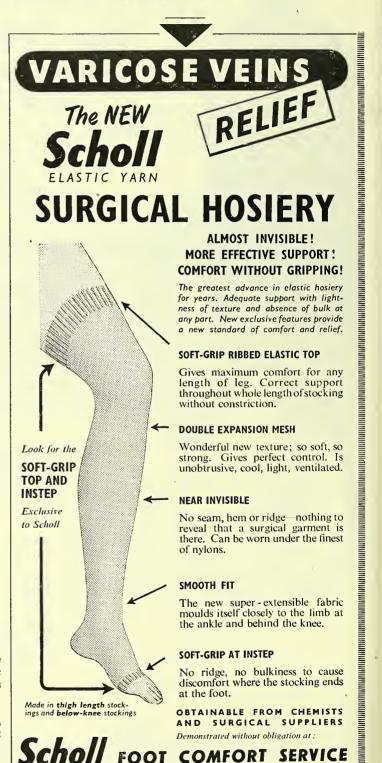
This new Scholl Surgical Hosiery can be supplied against prescriptions for Elastic Yarn (or Lastex yarn type) Thigh Stockings and Below-knee Stockings.

Evening Press

Send for details of special display material, stock size charts and simplified measurement instructions.

THE SCHOLL MFG. CO., LTD.

182-204 St. John Street, London, E.C.1





The Pet Food Market Grows and Grows!

Are you aware of the really big profits that go-ahead chemists are making from cat and dog foods? Every year their sales are rising, and the fine tinned products of Chappie Limited are leaders in the field. Ninety-five per cent of cat food purchasers, for example, buy Kit-E-Kat—and in most cases as often as three times a week. Shouldn't you be cashing in on this profitable market?

LET EVERY HOUSEWIFE WITH A CAT OR DOG KNOW YOU STOCK THEIR PETS FAVOURITE FOOD



A Nation-wide sampling scheme for-



THE THROAT PASTILLE

produced especially for

CARUSO, the great Italian tenor, is now proceeding Free samples of Vocalzone, the throat pastille compounded by Dr. Wm. Lloyd, F.R.C.S., laryngologist for 15 years to Caruso, are being offered in a widespread advertising campaign in the National Press, Periodicals, on the Underground Railways and Radio Luxembourg.

At the reduced price of

1/8

Vocalzone Pastilles will be in great demand this winter

Obtainable from your usual suppliers or direct from

VOCALZONE Ltd.
120, Moorgate, London, E.C.2

DISPLAY CARTONS!



Packed 3 dozen tins for Counter Display

There's more in them than meets the eye

Ergometrine Maleate B.D.H. is endowed with those little extras — the pharmaceutical elegance, the unvarying reliability — that accumulate with long experience and intense pride in manufacture.

Ergometrine Maleate B.D.H. is the pure salt of the alkaloid from Claviceps purpurea presented as tablets and as solutions for injection. Both forms are stable and free from tendency to discolour. Prices are fair and competitive.

ERGOMETRINE MALEATE B.D.H.

TABLETS FOR ORAL USE HYPODERMIC TABLETS AMPOULES

Enquiries are invited from manufacturers requiring the bulk substance.

THE BRITISH DRUG HOUSES LTD. LONDON N.I

EDC M/T/S



If one green bottle...

should accidentally fall, or the whole ten, there would be no pieces
to sweep up . . . because all Poly-Tainers are *unbreakable*. They carry
creams, lotions, powders and chemicals in rigid or pliable Polythene . . .
featherweight, airtight, acid resistant. We hold the world's
largest range of stock moulds, all shapes, colours and sizes from ½ ounce
to 15 gallons. Many world famous organisations use them. If you require
a special Poly-Tainer we will make it for you. Our Design and Consultation
Service is at *your* service. All "label" details can be embossed or printed

direct by a new permanent process, in the colour you specify. That's Poly-Tainer!



Featherweight unbreakable leakproof containers.

THERE'S NO SUBSTITUTE

for a genuine Poly-Tainer. Look for the name on the bottom.

Distributed by INDUSTRIAL APPLIANCES LTD., 21/22D Grosvenor Street, W.1.
Telephone: GROsvenor 5976/8 (P.B.X)

Manufactured by E. Shipton & Co. Ltd., Ferndown Works, Northwood Hills, Middx.

Telephone: PINNER 1103/5 (P.B.X.)

Let RANSOM'S

process your own raw materials-

ROOTS, BARKS, LEAVES FLOWERS, SEEDS, ETC.



In addition to processing the medicinal plants grown on their own farm, Ransoms are meeting an increasing demand from the pharmaceutical and allied industries for the extraction or other treatment of raw materials such as roots, barks, leaves, flowers, seeds, etc., supplied by customers themselves. Ransom's experience in processing medicinal plants for over a century places them in a unique position for assisting those in the industry who prefer to buy their own raw materials but who have not the equipment or specialised personnel to carry out such operations.

Enquiries are invited on any problem connected with the processing of medicinal plant raw materials.



Established 1846

WILLIAM RANSOM & SON LTD.

Manufacturing Chemists and Medicinal Plant Growers for over a Century

HITCHIN

HERTS



Six prizes—each consisting of fourteen days in lovely Ostend any time during June or September, 1955, for you and your family (or you and a friend if you are single). First class hotels. First class food. First class travel there and back. All free—plus £50 to spend while you are there.

Here's how to win. If you are a shop owner or manager, simply see that all your counter assistants enter the Contest. If one of them wins, there's an entirely separate free holiday for you too.

If you are an assistant, start to-day collecting the bands from all the packets of Modess Masslinn sanitary towels you sell. Fill in the Entry Form below, completing the sentence: "I recommend Modess Masslinn to my customers because . . ." using not more than twenty additional words. Then send it in with 50 bands. Send as many entries as you like, providing each is accompanied by 50 bands. Prizes will be awarded to the six entries judged to be the most apt, original and sincere. Prize-winning entries will be chosen by an independent panel of judges. The judges' decision shall be final and no correspondence can be entered into. Proof of posting cannot be accepted as proof of delivery. The last date for entries to reach us is 30th April, 1955.

ENTRY FORM

To: Johnson & Johnson (Gt. Britain) Ltd., Dept. CD., 24-25 Princes Street, London, W.1. Fill in this coupon and attach it to your entry on a plain sheet of paper on which you should complete the sentence: "I recommend Modess Masslinn to my customers because" using not more than twenty additional words. Be sure to send 50 Modess Masslinn bands with your entry.

Name.....

Shop Address

I have read the rules of the Contest and agree to abide by them.

Dull hair becomes - Radiant -

Grateful women
everywhere are finding Four-in-One
the effective answer
to hair that is dull,
faded or just showing
the first grey touches.
Easy to use—it can be
applied in a few minutes
like a shampoo—
Four-in-One not only
restores full natural
colouring in a single application, but conditions the
hair to soft, silky loveliness

be utes ly e applims the eveliness

at the same time! Available in a range of glamorous shades ranging from Blue Black to Smoke Blonde.

Attractive

descriptive booklets
'Begone Dull Hair'
are available for
counter distribution.

INEGEO Four-in-One

PRICES

Small size (IA & IB bottle) 2/6 wholesale (plus P.T.), retailing at 5/6.

Large size (4A & 4B bottles) 7/- wholesale (plus P.T.), retailing at 15/9.

FROM ALL WHOLESALERS

INECTO ENQUIRY BUREAU 27 DOVER STREET, LONDON, W.1

Hyde Park 7541 (12 lines)

Standard For Quality

AMERICAN OILS

of

PEPPERMINT

(Menthae Piperitae)

SPEARMINT

(Menthae Viridis)

THE

H. G. HOTCHKISS ESSENTIAL OIL CO.

Established 1839

Lyons, Wayne County, N.Y. U.S.A.

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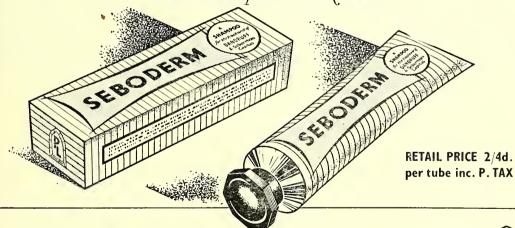
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Volume 163

Le N February 5, 1955

No. 3911

CONTENTS

A Bristol Pharmacy	Passes		146	
Beginnings of Chem	istry		141	
C. & D. Retail Price	List		158	
Drug Contract Scher	ne		134	
Dublin Fair Trade (Commission		134	
Echoes of the Past			147	
Examiners' Reports			151	
Figures in Pharmaceu			140	
Guide to New Med			148	
Leading Articles:				
A London with T	oo Few Shor	os?	143	
What to Pay a W			143	
Medical Abstracts			150	
New German Propri			148	
Onward from Galen			144	
Painless Injections			145	
Six Months in Amer			152	
Topical Reflections			133	
ropicar Kenections	•••	• • •	133	
Births 137	Packaging N	otes	1	
Business Changes 136	Personalities		1	-
Coming Events 158	Photographic	Note	s 1	38
Deaths 137	Price Change		1	
Information Wanted 142	Print and Pu	blicit	y 1	57
In Parliament 135	Trade Marks		1	57
Legal Reports 134	Trade Notes		1	39
New Companies 136	Trade Report			55
New Products 139	Wills		1	48
P.A.T.A. 158	World Trade			

INDEX TO ADVERTISERS, Pp. 5 & 6.

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Volume 163

FEBRUARY 5, 1955

No. 3911

An Alternative to Aspirin?

BY-PRODUCT SHOWS PROMISE IN TESTS

A COMBINED research team of Allen & Hanburys, Ltd., and the Chemical Research Laboratory of the Department of Scientific and Industrial Research reports in *Nature* (January 29, p. 206) that 4-hydroxy-isophthalic acid, a by-product of the manufacture of salicylic acid, has been found to be less toxic and more effective in analgesic action than

aspirin.

The drug was also found to be "about as effective" as aspirin in counteracting fevers caused by a preparation of pyrogen from Proteus vulgaris. The compound exhibited in comparative tests 4'1 per cent. of the activity and 10 per cent. of the activity and 10 per cent. of the toxicity of codeine. 4-hydroxyisophthalic acid has been found to form 82 per cent. of the "brown dust" residues from the sublimation process for the purification of salicylic acid. The chemistry of 4-hydroxyisophthalic acid is being studied at the Chemical Research Laboratory which suggested that, from a consideration of its structural similarity to salicylic acid, it might also possess similar pharmacological properties. The pharmacological investigation was initiated at the Ware laboratories of Allen & Hanburys, Ltd., in February 1954. Because the drug promised to have a clinical value similar to but greater than that of aspirin, a chronic toxicity test was carried out by administering 0.5 and 1.0 per cent, in the diet to mice for a period of fourteen weeks. In that experiment the drug exhibited toxicity of the same low order as that of aspirin. The median effective dose in young rats was found to be 303 mgm. per kilo. The median lethal dose was 1,071 mgm. per kilo, and a dose of 600 mgm. per kilo was tolerated by all eighty-seven rats that received it.

Annual C.F. Luncheon

RETAILERS PRESENT FOR FIRST TIME

AN unusual feature of the annual luncheon of the Chemists Federation, held in London on January 27, was that this year it was not confined to manufacturer and wholesaler members. About 200 retailers, representing National Pharmaceutical Union branches and local associations, were in London for the tripartite conference in the afternoon, and attended. Mr. C. H. Jones (president) welcomed them and welcomed also the Federation's guests, who included the presidents of the Pharmaceutical Society, Scottish Pharmaceutical Federation, Ulster Chemister Chemistry 27, who included the presidents of the Pharmaceutical Federation, Ulster Chemistry 27, was that the content of the Pharmaceutical Federation, Ulster Chemistry 27, was that the content of the presidents of the Pharmaceutical Federation, Ulster Chemistry 27, was that this year it was not confined to manufacturer and wholesaler members.

mists' Association, Association of British Pharmaceutical Industry and Proprietary Articles Trade Association, and the chairman of the N.P.U. The C.F. council had met in the morning. A report on the afternoon's proceedings (for which eighty resolutions were submitted) is being issued later.

Fees for Patents RENEWALS AND OTHER FEES GO UP

FROM February 1, higher renewal fees are being charged for patents and designs registrations due to expire after April 30; and after that date there will be a general increase in fees payable in respect of a number of patents and designs matters. The renewal fee for each of the last two years of a sixteen-year patent or design registration, previously £15 and £16 respectively, will now be £20 for each year. In addition to providing for higher fees, the Patents Rules have also been amended in minor respects to make them conform to the requirements of the European Convention of December 11, 1953, relating to the formalities required for patent applications.

Private Patients' Drugs

NO GOVERNMENT UNDERTAKING

A REPORT of a meeting between representatives of the British Medical Association and the Minister of Health on the subject of drugs for private patients is given in the January 29 Supplement to the British Medical Journal. The deputation was received in December 1954. While recognising that an amendment of the Act would be necessary and that it might not be possible at present, the deputation put forward to the Minister the view in the medical profession that the present state of affairs is inequitable. To regard prescribing as an inseparable part of the general medical services was held to be unnecessary. The profession had always been led to believe that patients would be free to use separately any part of the services provided under the Act. There would be ittle difficulty in devising satisfactory machinery for preventing abuse, and the fear that it might lead to two standards in general practice was quite unfounded. Dr. A. Brown, for the Association, asked whether the Government accepted the view that a private patient was entitled to drugs under the Service. Once that principle had been decided, any administrative difficulties could be examined. THE DEPUTY SEC-RETARY of the Association said that the profession resented the suggestion that the proposal would introduce two standards in general practice. In his view such a situation might well exist in reverse today, when many private patients were unable to afford the drugs necessary for their treatment. The Association would willingly dis-



CHORUS OF APPROVAL: Child guests join lustily in a sing-song at a party organised by the personal-products-division factory of Johnson & Johnson (Gt. Britain), Ltd., Wrexham industrial estate, Denbighs, on January 8. 288 children between four and eleven years of age attended.

cuss measures to prevent abuse. It was quite possible that any increase in the drug bill would be offset, at any rate to some extent, by an increase in the amount of private practice, with a consequent reduction in the amount of public funds that went into the central pool. In answer, MR. IAIN MACLEOD (Minister of Health) said that there had been no change either in the situation generally or in his own views on the subject. From the Government's point of view there were three difficulties: legislation, finance, and administration. The administration diffi-culties were formidable but not insurmountable. The door was by no means shut, but he could give no undertaking that the Government would commit itself to allowing private patients to be supplied with drugs under the Service either at present or at any future time.

Census of Wholesalers

TURNOVER IN DRUGS AND TOILET GOODS THE third and final volume of the 1950 Census of Distribution Report 1950 Census of Distribution Report has just been published by H.M. Stationery Office, price 15s. The present volume (pp. 202) deals with wholesale trading; wholesalers buying and selling on their own account, etc. Suppliers of goods to retailers and of raw materials are shown with their location in rials are shown with their location in all the main wholesaling centres. Details are given of the sales volume; number of employees employed by the wholesalers; their wages and the bonuses and commissions earned; the number of working proprietors; the cost of transport; and the gross margins earned by the businesses. There were, in 1950, 469 wholesale organisations (including importers) which dealt tions (including importers) which dealt in drugs, proprietary medicines and toilet goods. Their invoiced sales totalled £73·1 millions. A further analysis of that total shows that 389 wholesalers sold such goods to retailers at a cost of £38·7 millions, whilst 215 sold the same type of goods to other wholesalers for £11·4 millions. Another table shows that £6·4 millions was paid direct to the Government for was paid direct to the Government for purchase tax on those commodities by 381 organisations. In the Greater London area there were 211 establishments with a sales turnover for drugs, toilet preparations, etc., of £44.4 millions (wages and salaries paid, £1.1 millions), while in Glasgow there were twentyseven establishments with total sales valued at £1.9 millions (wages paid,

Food, Cosmetic or Drug?

DECISIONS BY MEDICAL COMMITTEE

FROM a list of prescriptions issued by medical practitioners and recently forwarded by the Pricing Bureau to the London Executive Council because the substances prescribed appeared to be foods, beverages or cosmetics, the following cases were decided by the Local Medical Committee after consultation with the doctors concerned:—Casilan was considered in nine cases to be a drug, but not in seven other cases; glucose tablets, Lactagol, Covicone cream, Lacto-calamine and Obesettes tablets were all considered to be drugs in the cases under review.

Myxomatosis in Rabbits

ADVISORY COMMITTEE'S SECOND REPORT

THE second report of the Myxomatosis Advisory Committee, published on January 27, states that the Committee has no doubt that the disease will survive the winter and that there is no way of preventing it from spreading widely during the coming spring and summer. The disease has been extremely virulent in Great Britain during 1954 and less than 1 per cent. of affected rabbits have survived; but experience in Australia and elsewhere suggests that the number of immune survivors may increase in future years. The report is published by H.M. Stationery Office, price one shilling.

Travellers' Schools

RESULT OF 1954 MAINTENANCE APPEAL

A GRAND total of £39,350 was raised by the 1954 maintenance appeal on behalf of the Royal Commercial Travellers' Schools. That was announced at the Schools' festival dinner held in London on January 28. It has since been announced that Mr. Leslie Gamage (president) has cabled from abroad that he will make the total amount up to £40,000. Speakers at the dinner included the appeal president, Mr. Basil N. Reckitt (chairman, Reckitt & Colman, Ltd.), Mr. J. H. Nicholson (Vice-chancellor, Hull University) and Mr. R. B. F. Muir (sales director, Reckitt & Colman, Ltd., Hull).

Hospital Supplies

INVESTIGATION COMMITTEE APPOINTED

THE Central Health Services Council has appointed a committee on hospital supplies to investigate and report on the organisation of all forms of hospital supplies, including their purchase, storage and issue, throughout the National Health Service. Among the members of the committee is Professor Sir Henry Cohen. The committee invites persons and organisations interested in the subject to forward memoranda of evidence to the secretary, Mr. L. B. Jacques, Ministry of Health, Savile Row, London, W.1.

Course in Truss-fitting

EIGHT LECTURES AT BOLTON

A COURSE of eight lectures by Mr. F Mitchell-Heggs, F.R.C.S., on the fitting of trusses and appliances for abdominal hernia is being held at Bolton Technical College on Tuesday evenings, 7—9 p.m., commencing on February 8. The fee for the course is 15s., and should be sent with application to the Principal, Bolton Technical College, Manchester Road, Bolton, Lance

DDT Invention Award

ROYAL COMMISSION'S £6,000 DECISION

A JOINT award of £6,000 to J. R. Geigy, S.A., Basle, Switzerland, and the Geigy Co., Ltd., Manchester, for the manufacture of DDT, was recommended on January 31 by the Royal Commission on Awards to Inventors to be made.

IRISH NEWS

Health Services Board

TETRACYCLINE FOR DOCTORS

THE medical advisory committee of the Northern Ireland General Health Services Board has been informed that the Hospitals Authority has been given approval by the Ministry of Health and Local Government for the supply of tetracycline to general practitioners (see C. & D., January 22, p. 80). The committee was told that hospital management committees had been advised to make the necessary arrangements for general medical practitioners to obtain supplies. Doctors on the Board's list are to be circularised informing them of the arrangements. The executive committee of the Board has been told that a chemist had forwarded his prescription code book and schedule of alterations to the Board requesting that they make the alterations to the Code. The Secretary stated that the code book and schedule had been returned and the chemist informed that the Board could not carry out the amendment of individual code books. The chemist had since returned the book and stated that he would discontinue coding. The committee instructed the secretary to return the code book again and inform the chemist that if he did not code his prescriptions the Board would be unable to pay him. The committee recommended that for the month of January an interim payment should be made to allow the chemist an opportunity of recommencing coding. The Board's finance and general purposes commit-tee, having considered the salary scale of the Board's pharmaceutical officer in the light of recent Whitley Council awards to senior administrative officers, has agreed that the Ministry of Health and Local Government be asked to approve an increase of £100 per annum to the pharmacist's salary to take effect from April 1, 1954.

Associates' Section

MEETING OF COMMITTEE

AT the January meeting of the Committee of the Associates' Section of the Ulster Chemists' Association, Mr. G. E. McIlhagger in the chair, the following applications for associateship were approved:—Pharmaceutical Chemist, Mr. G. H. Duke: Assistants, Messrs. J. R. Gray, G. McLarnon, L. G. Torbitt; Apprentices, Misses R. D. Brown, M. Donnelly, M. J. Watson, Messrs. R. J. Davidson, and J. M. Gibb. The secretary reported that the prizes presented by the Associates' Section for the Pharmaceutical Society's examinations held in December 1954 had been awarded to Mr. I. J. Boal (a former Committee member) and to Miss A. Sullivan. Both recipients are members of the Associates' Section.

Examination Results

PHARMACEUTICAL SOCIETY OF IRELAND

THIRTY-EIGHT candidates sat for the January Licence examination (Part II) held by the Pharmaceutical Society of Ireland. The following passed: Catherine Ambrose, Declan Broderick,

Richard Cullinane, Seamus Dargan, Mary H. Daly, Ann Dineen, John J. Dennelly, Nora P. J. Fleming, Thomas Godfrey, Thomas Hassett, Leo Keenan, Richard Kelly, Thomas Leo, Anne B. Manning, Patrick Monsell, Katherine O'Donoghue, and Patrick A. Stanley. Six candidates sat for the January Dispensing Chemists and Druggists examination, when the following passed: Patrick F. Connaughton, Albert Dineen, James Leo McKernan, and Patrick J. Plunkett.

Chemist Debaters

UNIVERSITY EDUCATION THE SUBJECT

THE Chemists' Debating Society is holding its annual meeting at the College of Pharmacy, Shrewsbury Road, Dublin, on February 11, when a paper is being read on "Some Aspects of University Education."

NEWS IN BRIEF

THE British Industries Fair is being opened at Olympia, London, on May 2 by Admiral Lord Mountbatten.

THE address of the Guild of Public Pharmacists' general secretary is now Wayside, 1 Sunte Avenue, Haywards Heath, Sussex.

THE Belgian Société de Chimie Industrielle has appointed Mr. François Boudart its President. Mr. Boudart is also president of the Union Chimique Belge and the Fédération des Industries Chimiques de Belge.

THE Butterick research laboratories of Imperial Chemical Industries, Ltd., The Frythe, Welwyn, Herts, are being renamed the Akers research laboratories in memory of the late Sir Wallace Akers (a former research director of the company).

Factors affecting productivity in the chemical industries, with special reference to work study and systems of wage payments, are being discussed at the fourth session of the Chemical Industries Committee of the International Labour Organisation, Geneva, February 7—19.

SIR Charles Dodds, F.R.S. (Courtauld professor of biochemistry, University of London, and director of the Courtauld Institute of Biochemistry, Middlesex Hospital, London) has been appointed a member of the Advisory Council for Scientific and Industrial Research.

MEMBERS of the Nottingham Branch of the Pharmaceutical Society have been asked by the Nottingham University Pharmacy Advisory Committee to form a panel of practising pharmacists willing to employ pharmacy students during each of their long vacations for a minimum period of one month to give them practical experience.

At the annual meeting of the Scottish Section of the Society for Analytical Chemistry held in Edinburgh on January 19 the following were elected officers of the Section for 1955-56:—Chairman, Dr. F. J. Elliott; Vicechairman, Dr. Magnus Pyke; Secretary and Treasurer, Mr. J. A. Eggleston, Boots, Ltd., Motherwell Street, Airdrie, Lanarks.

TOPICAL REFLECTIONS

By Xrayser

Pink String and Sealing Wax

Your recent issues have devoted some attention to the attractive, modern packaging of goods, following the 1955 Packaging Exhibition in London. It was surely a touch of genius to invite a Lord Privy Seal to open the proceedings, for if anyone should appreciate the "finish" of a package it should be the person bearing such an appropriate appellation. It is clearly recognised that the presentation of a product is an important factor in its sale, and if appearance, hygiene and quality can be combined, then we have reached the ideal. It is important to see that first impressions of the outside of a pack are not destroyed by poor materials within. We have all passed through the age when the glorious, martial scene on the outside of a box of toy soldiers was not quite matched by the contents, and we have probably been a little suspicious of glamour and glitter in our later years. But you draw attention in your leader (p. 119) to a different aspect of the question, namely that of dispensed medicines, and make the statement that the standard of packaging in this regard has fallen since the war. If this is so, I am indeed sorry to hear it. I was taught, in my early days, to read the Art of Dispensing, and I have never forgotten a striking statement to the effect that the chemist who economised by using cheap drugs was a rogue, but he who used cheap paper and corks was a fool. With the coming of the Health Service, there was an opportunity for the pharmacist to show how much better he could dispense than anyone else.

Container Allowances

The parsimony of the Ministry of Health in regard to container allowances is, as you suggest, a possible cause of a fall in standards, but I do not think it is a valid reason. Surely the way to bring about the restoration of an adequate fee for containers is to maintain a high standard, and in so doing, prove to the Ministry that the present figure is quite insufficient. To those suffering from the small allowance, that may sound a counsel of perfection, for the cost of containers is steadily rising, but the depressing of standards of appearance is a mistake. In many ways, as the Art of Dispensing said, the only lay means of assessing the quality of the product is the external appearance. To dispense the best drugs in anything other than the best manner is not fair to the drugs. It appears, from the Hospital Pharmacy Forum (p. 127), that the same tendency exists in hospitals. Every bottle should be wrapped in white demy and properly finished. Every bottle should be polished. Every label should be clearly written and carefully balanced. (Look again at the beautiful specimens in the Art of Dispensing.) Perhaps some of your readers will feel encouraged to send you a written label to illustrate that the art of handwriting is not lost. I should like to see some of them reproduced, if space permits.

Erewhon

We are constantly in search of Utopia, but the announcement by Mr. R. A. Butler anent purchase tax does not convey the impression that he is in any way related to Samuel of that ilk (p. 105). It appears that any change in the rate of tax will be broken to us "in a moment, in the twinkling of an eye." In effect, the tax we have paid in buying our stock may become a direct personal tax on ourselves. We should have become inured to this game of chance by this time, for it has become evident that a tax of this kind is simple to impose and difficult to remove. The point which the Chancellor has made with admirable clarity is that no inferences should be drawn from his statement. So, instead, of looking to the Budget for a lead, with the resultant slowing down of trade for a month or two beforehand, the country is to live in glorious uncertainty from day to day. Mr. Butler chose to make his announcement on January 25-a day of great importance north of the Tweed. Burns lived in an age when purchase tax was unknown, but before making any announcements, the Chancellor should think well, for it is unlikely that the deil will confine his attention to the exciseman.

DRUG CONTRACT SCHEME

South-west Metropolitan hospital pharmacists confer

A GENERAL meeting of hospital pharmacists in the South-west Metropolitan Region (excluding the Western Area) was held in London on January 15 (see C. & D., January 22, p. 90). MR. E. A. Cross (chairman, South-west Metropolitan Hospital Pharmacists' Committee) who presided, in opening the afternoon session welcomed the attendance of Mr. A. A. Hunt (deputy secretary) on behalf of the Regional Hospital Board, and of Messrs. P. Crees and F. W. Sambidge (Birmingham and Midland Hospitals Pharmacy Committee). THE SECRETARY (Mr. W. S. Benjamin) presented the Committee's report on the scheme of regional contracting for drugs. He said that the number of participants - originally thirty-one hospital management committees and four boards of governors of teaching hospitals — had been increased during the first six months by the inclusion of four additional hospital management committees. In spite of the size of the scheme very few difficulties had been encountered and returns made to the Committee by contractors showed that quantities were being taken up at approximately the estimated rate; furthermore, the contractors appeared to be well satisfied with the Committee's approach and arnts. To handle the large of work entailed by the rangements. volume scheme three subcommittees had been set up: a supplies subcommittee with general responsibility for detailed work in the running of the contracts, a standards subcommittee to maintain quality control over the materials supplied, and a containers subcommittee to deal with problems about bottles and other containers. The administrative costs of the scheme were met entirely from official funds and amounted to a very small proportion of the savings effected. He announced a second substantial grant from the Regional Hospital Board to the Committee to further its general activities.

Liaison Committee Established

The Committee had received many inquiries about the operation of the scheme, one from as far afield as the Department of Health, New Zealand. There had been joint discussions with representatives of the Manchester Region and later with the three other Metropolitan Regional Hospital Pharmacists' Committees regarding regional drug contracting. A permanent liaison committee for the four Metropolitan regions was now established. An agreement had also been reached with the South-west Metropolitan Regional Supplies Officers' Committee concerning spheres of action in connection with Regional contracts.

Dealing with the arrangements for contracts for the year 1955-56, Mr. Benjamin said that twenty-three of the participating groups had submitted between them approximately 120 drug items for consideration. A large proportion would be included in the schedules to be circulated. In preparing the schedules the committee had recognised the value of placing items on

contract for the purpose of controlling quality even when no price advantage was necessarily anticipated. It was proposed to arrange a regional contract for bottles along with that for drugs.

In the discussion that followed, Mr. S. Powlson (Brompton Hospital) emphasised the desirability of permanent labels on ampoules. Mr. J. D. Burns (Croydon General Hospital) pointed out that sooner or later a regional drug contracting scheme would have been set up by someonc—possibly lay administrators. It was to the advantage of pharmacists that the present scheme

was in their own hands. Replying, THE SECRETARY stressed that it was in the best interests of the National Health Service that all matters in connection with the acquisition and supply of drugs should be controlled by pharmacists. MISS N. HARRIES (Tooting Bec Hospital) observed that the scheme had brought about far more co-operation between pharmacists and administrators in the Region than ever before. MR. P. CREES, Birmingham, said that a scheme of that nature would be accepted without comment in six. or seven years' time. The hospital pharmacist should cease to regard his department as his own property. The report of the Committee was unanimously adopted.

DUBLIN FAIR TRADE COMMISSION

Application for contempt certificate refused

THE Fair Trade Commission meeting in Dublin on January 25 refused an application made to have May, Roberts (Ireland), Ltd., committed for contempt, Mr. Sean Collins made the application on behalf of Mr. Monte Harris (Ideal Products, Ltd., wholesale grocers, Dublin). Mr. Harris alleged that Messrs. May, Roberts had refused to supply him with certain pharmaceutical goods sometime after he had given evidence before the Commission. evidence Mr. Harris said that three weeks previously he had sent in a post-card order to the company for Milk of Magnesia. He sent a further post-card after a week stating that he was waiting for the goods, but he received no acknowledgment. Mr. Harris then told the Commission of a telephone conversation he had had with Mr. Davidson (a director of the company). "I spoke to him," said the witness, "and he said that the board of his company had decided that no further supplies were to be made available to because I had stated at the Fair Trade Commission in answer to a question from a member of the Commission that I would supply anyone who would pay me cash. Mr. Davidson further said that as far as his company were concerned, this negated the undertaking which he had given Messrs. May, Roberts not to knowingly supply anyone selling their goods at less than the advertised prices." Mr. J. J. HENRY advertised prices." MR. J. I. HENRY (counsel for Messrs. May, Roberts) said that he was not to be taken as agreeing that the matter was of any importance. He did not intend to call any evidence because he was instructed that Mr. Harris's report of the telephone conversation was substantially correct. He submitted that the attitude of Messrs. May, Roberts was very rea-Notwithstanding what sonable. Harris said they would be entitled to say that he had been and was making a practice of supplying price-cutting shops and was in breach of his agreement.

Giving its decision after an interval of a day THE CHAIRMAN (Mr. J. C. B. McCarthy) said that the Commission were satisfied that there were features peculiar to that particular case which placed it outside the scope of their powers. Accordingly they felt that they could not issue a certificate to the

High Court. They felt it incumbent upon them, nevertheless, to state that they deprecated strongly the action that gave rise to the complaint. The facts disclosed by the evidence would form part of the Commission's report of the inquiry, and the implications of the action that was taken would be assessed in the context of restrictive trade practices in accordance with the provisions of the Act.

THE CHAIRMAN then announced that the inquiry was being adjourned pending the outcome of the High Court case of the Pharmaceutical Society (see C. & D., January 22, p. 84).

LEGAL REPORTS

FOR TRIAL AT QUARTER SESSIONS

Posed as Doctor

AT Bristol, on January 27, Reginald Morgan Ford, Bedminster, was committed for trial on a charge of forging a letter purporting to show that he was a graduate in medicine at the University of Bristol, held the degree of M.B. and Ch.B., and was duly listed in the general medical register. The prosecution said that Ford had approached a Bristol doctor, to whom he described himself as qualified, and said that he might be able to help him. The doctor agreed, and made application to the Bristol Executive Council. When certain information came to his notice he questioned Ford, who explained the absence of his name from the medical register by saying that there had been a mistake by Bristol University. Later he produced a letter purporting to be from the registrar of the General Medical Council, admitting that a mistake had been made, but stating that Ford's name would appear in subsequent editions of the register. The letter was accepted by the doctor and the Executive Council, and Ford continued to act as the doctor's assistant until February 1954. At the hearing the doctor said that Ford had visited patients and held two surgeries a week. "I have no plaint from any of the patients. "I have no com-He has not signed a death certificate and he never prescribed any Danger-ous Drugs." A police officer said in cross-examination that Ford had been for about twelve months a student in the faculty of medicine at Bristol

University, and held a diploma as a physiotherapist. He had an excellent character. Ford, who was committed for trial at the next Bristol quarter sessions, was allowed bail.

DANGEROUS DRUGS ACTS

Unauthorised Possession

At Liverpool city quarter sessions on January 26, Edward Davis, Liverpool, was found guilty of being in unauthorised possession of Indian hemp and sentenced to six months imprisonment.

—At the same court Neville Smith, a coloured man, Liverpool, was found guilty on a similar charge and fined £20.—At Bristol magistrates' court, on January 31, Mohamed Pearo, an Indian, was sent to prison for six months after pleading guilty to having Indian hemp in his possession without authority. Pearo had had in his possession, it was stated, 14 lb. of Indian hemp, profit on the sale of which would have amounted to £2,800 at the current price obtained for "reefer" cigarettes.

Remanded on Bail

AT West London magistrates' court, on January 26, John George Gibbon, Paddington, was remanded on his own bail of £50 after pleading guilty to being in unauthorised possession of Indian hemp. In his defence it was stated that Gibbon was a physicist interested in chemicals and drugs. After reading a book by Aldous Huxley, which dealt with a certain drug, he decided to experiment. He had smoked only a small quantity during his investigation.

FOR TRIAL AT OLD BAILEY

Certificate by Alleged Fraud

AT Clerkenwell, London, magistrates' court, on January 27, a chemist's assistant, Richard William Stuart, aged forty, was charged with unlawfully procuring a certificate of registration as a pharmaceutical chemist. He was also alleged to have signed on a form the name of a Keswick, Cumberland, justice of the peace. Stuart, who lived at 11 York Street, Whitefield, Lancs, was stated to have procured, on Octo-ber 6, 1954, at the offices of the Pharmaceutical Society, by wilfully making verbal and written representation which he knew to be false, a certificate relating to the registration of Sydney Abraham. He was further charged with having uttered a letter (purporting to be a letter written by Abraham seeking from the Pharmaceutical Society a certificate of registration as a pharmaceutical chemist) knowing the document to be forged, and with intent to defraud. Prosecuting counsel for the Society said that Stuart had never been registered at any time, but Mr. Abraham was registered and resided in New Zealand. Stuart represented himself as Abraham and as a pharmaceutical chemist. Mr. G. M. Evans, M.P.S., 33 Bury New Road, Prestwich, Manchester, said he had employed Stuart for about six years as an unqualified assistant. In September 1954 he saw Mr. and Mrs. Stuart, and Mrs. Stuart said she would like to be the first to tell him that Stuart had passed his examination in physiology. Stuart had previously told him that he

had taken Parts I and II and had been referred" in physiology. Mr. Morgan Evans congratulated Stuart but later, when he asked him to produce his certificate, Stuart said it had not arrived. Still later he said it was being framed. A registered document arrived at his address in October 1954, addressed to "Someone Abraham." It had been returned to the Post Office and he had Mr. Stuart had not seen it since. always been paid as unqualified. An inspector of the Society said that, on November 26, 1954, with another inspector, he saw Stuart at 33 Bury New Road, Prestwich, and asked him if he had written a certain letter dated August 17, 1954. Stuart said he had not, and that he did not use that type of notepaper. Further questioned he said, after a long pause, "Yes, I did write it. I might as well tell the truth. I wrote them all." Asked if he telephoned the Society on June 16, 1954, saying he was Sydney Perry Abraham and that his certificate had been inadvertently destroyed and required re-placing, Stuart replied, "Yes." Stuart was also shown a document which he agreed he had completed. His attention was drawn to a signature of a justice of the peace, Mr. Mark Hopper. Stuart declared: "Yes, there is a J.P. of that name in Keswick." Asked if had signed that name in his own writing, he said, "Yes." Asked if

he had received the certificate from the Society, he said he had, but that he had burned it. Stuart also said he had known Abraham when they were apprenticed together some years ago in different shops in Keswick. A clerk in charge of records of the Society, said that, as the result of a declaration (shown to her in court), she had arranged for the dispatch of a certificate to Sydney Perry Abraham at 33 Bury New Road, Manchester. She had searched the Society's register of pharmaceutical chemists. Mr. Stuart's name did not appear and never had appeared there. In the register was the name of Sydney Perry Abraham, 44 Bank Street, Timaru, New Zealand. Another clerk said that, on June 16, 1954, she had received a telephone call from someone who said he was Mr. Abraham, that he had just come back from abroad, and that he had lost his certificate. A declaration was sent to him at 33 Bury New Road. Commit-ted for trial at the Central Criminal Court on both charges, Stuart said " never used the certificate or claimed the wages of a qualified chemist from my firm. I must have been in a period of temporary insanity when I did it. I have never been in the hands of the police before and everybody I have ever worked for has been quite satisfied." Stuart was committed on bail on his own recognisances of £25.

IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MR. DUNCAN SANDYS (Minister of Housing and Local Government) told Mr. G. D. N. Nabarro on January 25 that the Government had decided in principle to adopt the policy recommended by the Beaver Committee on Air Pollution (see C. & D., December 4, 1954, p. 562).

Monopolies Commission

A number of questions were asked on January 27 about the work of the Monopolies Commission. Mr. H. WILSON asked the President of the Board of Trade when he expected to receive from the Commission a report on "stop" lists, exclusive dealings, and the imposition of fines on private traders by non-statutory private tribunals; and if he would take action to make illegal the practice of "stop" lists used by trading associations to deter private traders from selling goods below a ring price. Mr. P. Thorney-Croft (President of the Board of Trade) said that he hoped to receive, by the middle of 1955, the Commission's report on its inquiry into the general effect of certain widely prevalent discriminatory practices, including "stop" lists and exclusive dealing.

Purchase Tax

When three requests for a statement by the Chancellor of the Exchequer on purchase tax were made on January 27, Mr. H. Brooke (Financial Secretary to the Treasury) referred the questioners to the Chancellor's statement of January 25 (see C. & D., January 29, p. 105). WING-COMMANDER E. E. BULLUS: Yes, but that answer was not very informative. I seek to know the date when the Chancellor may make

an announcement of any welcome reduction for the forthcoming year, as he did twelve months ago. MR. BROOKE: The Chancellor's answer two days ago was carefully considered and I have nothing to add to it. Mr. Roy JENKINS: By making a fair statement last year, but this year making some changes and announcing that they do not prejudice the Budget position, the Chancellor is creating the maximum uncertainty and confusion. Why does not the Chancellor do this year the same as he did last year? Mr. Brooke: We must wait and see. MR. DOUGLAS JAY: Is not the refusal of the Chancellor to make a statement this year a plain hint to the trade that he means to make changes in the Budget, and will not that promote the precise depression of trade that he was so concerned to prevent last year? MR. BROOKE: I would invite attention to the Chancellor's statement that it would be unwise to assume purchase tax changes in the next Budget.

Equal Pay in the Health Service

MR. IAIN MACLEOD (Minister of Health) in a written answer on January 27, told MR. H. MARQUAND that the question of equal pay for men and women in the National Health Service would have to be discussed in the first place by the Whitley Councils for the health services.

Cadmium Poisoning

MR. ERNEST MARPLES (Joint Parliamentary Secretary to the Ministry of Pensions and National Insurance), in a written answer on January 31, told MR. H. WILSON that the question whether cadmium poisoning should be

scheduled as an industrial disease and if so for what occupations, was being referred to the Industrial Injuries Advisory Council.

Cost of Proprietaries

MR. J. K. VAUGHAN-MORGAN asked the Minister of Health what progress had been made in reducing the cost of certain proprietary medicines. Miss P. HORNSBY-SMITH (Parliamentary Sccretary to the Ministry of Health), in a written reply on January 31, said that discussions had been proceeding with the Association of British Pharmaceutical Industry, and the Minister was now considering the position reached. Meanwhile, there had been some downward trend in the prices of preparations in the classes under investigation, and special provisional reductions had recently been arranged with certain manufacturers.

Patients on Doctors' Lists

MISS P. HORNSBY-SMITH, in a written answer on January 31, told Mr. VAUGHAN-MORGAN that the average number of patients on the lists of doctors who were principals on January 1, 1952, was 2,409. The corresponding figure for January 1, 1953, was 2,325; for July 1, 1953, 2,239; and for July 1, 1954, 2,210.

Mono-sodium Glutamate in Food

VISCOUNT WOOLTON (Chancellor of the Duchy of Lancaster) told LORD DOUGLAS OF BARLOCH on January 25 that the purpose of adding monosodium glutamate to certain kinds of food was to enhance their flavour. Glutamic acid was a normal constituent of food protein and had not been found to have any ill effect.

Duty-free Machinery Committee

MR. A. R. W. Low (Minister of State, Board of Trade), in a written answer on January 31, told MR. J. S.-W. Arbuthnot that the President of the Board of Trade had appointed a consultative committee on the duty-free entry of machinery in accordance with the recommendation by the Wilson Smith Committee. It consisted of six industrialists, three with experience mainly as makers, and three with experience mainly as users, of machinery; a trades union representative; and representatives of the Board of Trade and Ministry of Supply.

Scottish Drug Tariff

COLONEL A, GOMME DUNCAN asked the Secretary of State for Scotland on February 1 if he was satisfied that the present Drug Tariff for Scotland was in accordance with the award of the arbitration tribunal of June 1951. Commander T. D. Galbraith (Joint Under-Secretary of State for Scotland): That question was recently referred, by agreement between Scotlish chemists and the Secretary of State for Scotland, to the members of the arbitration tribunal. They stated that the present drug tariff was not contradictory to their 1951 award.

Food and Drugs (Scotland) Bill

The Food and Drugs (Scotland) Bill was given its first reading in the House of Lords on February 1.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office.

F. W. WOOD & SON (YORK), LTD. (P.C.).—Capital £1,000. To acquire the business of F. W. Wood & Son, chemists, carried on at 10 East Parade, Heworth, York. Directors: Frederick W. Wood, M.P.S., and Jack M. Wood.

CARRICKFERGUS PHARMACY, LTD. (P.C.).—Registered in Belfast. Capital £2,000. To carry on the business of chemists, druggists, etc. Directors: William L. J. Lloyd, M.P.S.N.I., and Albert J. Walmsley. R.O.: 17 High Street, Carrickfergus, co. Antrim.

K. HOULKER (CHEMISTS), LTD. (P.C.).—Capital £1,000. To acquire the business of a pharmaceutical chemist carried on by Kenneth Houlker, M.P.S., 513 Hempshaw Lane, Stockport. Directors: K. Houlker and Kathleen M. Houlker.

BUCHAN (CHEMISTS), LTD. (P.C.).—Capital £5,000. To carry on the business of retail and dispensing chemists and druggists, etc. Directors: Ethel M. James and Llewellyn L. James. R.O.: 209 Streetly Road, Erdington, Birmingham, 23.

GRANGE CHEMICALS, LTD. (P.C.).—Capital £90. To deal in chemicals, vegetable oils, petroleum products and chemicals derived therefrom, etc. The first directors are not named. Solicitor: G. F. Ashford, 21 St. James's Square, London, S.W.I.

MUGARZA, LTD. (P.C.).—Capital £3,000. To carry on the business of manufacturing, dispensing and analytical chemists, opticians, etc. Directors: Harris Green, M.P.S., and Elias Mugarza, M.P.S. R.O.: 284 Upper Parliament Street, Liverpool, 8.

HIGHBOURNE DEVELOPMENTS, LTD. (P.C.).—Capital £100. To deal in chemicals, gases, drugs, medicines, etc. Subscribers: Sidney Bourne and Cyril Heitter. The first directors are not named. Solicitors: Robert Clayton & Co., 110 New Bond Street, London, W.1.

JAGO & JAGO, LTD. (P.C.).—Capital £6,000. To acquire the business of Clifford G. T. Jago and Reginald C. Jago carried on at 35 and 49 Molesworth Street, Wadebridge, and at 12 Fore Street, Bodmin, and to carry on the business of chemists and druggists, etc. Directors: C. G. T. Jago, M.P.S., R. C. Jago, M.P.S., Ethel I. Jago, Lillian E. Jago, Robert C. Johns, M.P.S., and Douglas P. Johnstone. R.O.: 35 Molesworth Street, Wadebridge, Cornwall.

Company News

Previous year's figures in parentheses

IDRIS, LTD.—Consolidated net profit for the year ended October 31 was £53,698 (£69,945), less taxation, £31,895 (£43,957). Ordinary dividend, 12 per cent. (same).

ARTHUR BERTON, LTD. — Net profit for 1954 is £69,028 (£50,753). A total distribution of about 14½ per cent. on the present capital is recommended and a one-for-one scrip issue is also proposed.

P. P. PAYNE & SONS, LTD.—Group trading profit for year ended September 30, 1954, was £180,882 (£162,376), and net profit, before tax, £102,985 (£110,428). Tax provision, £59,500 (£66,500). A final ordinary dividend of 15 per cent. is proposed, making 20 per cent. for the year.

BEECHAM GROUP, LTD. — The offer by the company to buy the capital of H. W. Carter & Co., Ltd. (see C. & D., December 25, 1954, p. 638), has been accepted by holders of more than 98 per cent. of the ordinary shares and more than 90 per cent. of the preference shares.

ST. ANDREW MILLS, LTD.—The company's entire share capital has been acquired by the Bowater Paper Corporation, Ltd., for £540,000. The corporation state that they intend to expand and develop "this addition to the Bowater organisation and to widen the field of the products manufactured."

GRIFFIN & GEORGE, LTD. — A new company, Grundy Equipment, Ltd., has been formed in close association with Grundy (Teddington), Ltd. Griffin & George will act as sole selling agents for the new company which will concentrate on production of all-metal unit furniture for laboratories in the Teddington works until arrangements have been completed for a new factory.

BUSINESS CHANGES

MR. S. C. SPRINGETT has resigned from the staff of C. L. Bencard, Ltd.

MR. I. G. JAMES, M.P.S., trading as Timson, has removed to 184 Caledonian Road, London, N.1.

VICK INTERNATIONAL, LTD., arc removing to 10 New Burlington Street, London, W.1, on February 7 (telephone: Regent 6642).

THE London City office of Lilia, Ltd., has been moved to Condor House, 13 St. Paul's Churchyard, London, E.C.4. The telephone number is unchanged (City 6186).

GALASHIELS UNITED CO-OPER-ATIVE SOCIETY, LTD., have opened a new pharmacy as part of a general modernisation programme. The premises have been fitted out for self-service.

Appointments

VITAMINS, LTD., Upper Mall, London, W.6, have appointed Dr. Patrick Mamalis, B.Sc., to their chemical research station.

GEO. SALTER & CO., LTD., West Bromwich, have appointed Mr. P. J. Miles to represent the company's balance division in the east, north and west London postal districts, Middlesex, Essex, Herts, Bucks, Beds, Suffolk, Cambs (Isle of Ely), Hunts and Norfolk.

DISTILLERS CO., LTD.—Dr. H. M. Stanley has been appointed controller of research and development in succession to Dr. F. Roffey, who remains technical director of the company and has taken on the additional duties of personnel director of the company's industrial group.

BIRTH

RITCHIE.—At Queen Mary nursing home, Edinburgh, on January 13, to Maisie, wife of David Ritchie, Ph.D., M.P.S., 439 Gilmerton Road, Edinburgh, a daughter.

DEATHS

CARNIE. - On January 21, Mr. John William O'Brien Tweeddale Carnie, M.P.S., 89 Morden Road, Mitcham, Surrey, aged sixty-five.

DAVIS.—On January 20, Mr. Walter Reginald Davis, M.P.S., 168 Victoria Road, Cambridge, and formerly 2 Milford Parade, Milford-on-Sea, Hants, aged fifty-six.

DREW .-- On January 13, Mr. Walter Edwin Gibbs Drew, M.P.S., 41 Tredworth Road, Gloucester, and formerly 87 Mount Road, Hastings, Sussex, aged forty-eight.

GERSTLEY.—At a London nursing home, on January 24, Mr. James Gerstley, Warrenside, Oxshott, Leatherhead, Surrey, aged eighty-seven. Mr. Gerstley was deputy chairman and a Former joint managing director of Borax Consolidated, Ltd. He was one of the founders of the company and had been connected with the borax industry for over sixty years, pioneering many of its developments.

A Colleague writes: Mr. Gerstley took a deep personal interest in all the workers and staff of the company. Cultured, kind and considerate, he brought pleasure and endeared himself to all with whom he came into contact. We shall miss him, as will also his many friends throughout the world for whom his death will be a

personal loss.

HAMPSHIRE. — The funeral at Golders Green, London, on January 29 of the late Dr. C. H. Hampshire (see C. & D., January 29, p. 111) was attended by, among others, Miss Margaret Hampshire (daughter); Mr. M. Hampshire (nephew); Dr. L. H. Murray (World Health Organisation); Dr. B. A. Young (chairman of the Pharmaceutical Society's publications Pharmaceutical Society's publications committee); Mr. F. W. Adams (registrar of the Society); Mr. R. Overend and Miss Taylor (General Medical Council); Dr. F. Hartley, Professor W. H. Linnell, Dr. J. R. Nicholls and Mr. T. C. Denston (British Pharmacopeia Commission); Professor H. Berry (school of pharmacy, University of London) with Mrs. Berry; Dr. G. Brownlee and Mr. J. R. Fowler (Journal of Pharmacy and Pharmacology); Messrs. W. K. Fitch and T. B. Chadwick and Miss M. L. Sutherland (Pharmaceutical Journal); Dr. K. R. Capper (editor of the Society's scientific publications); Professor J. P. Todd, Dr. G. R. Boyes, Mr. H. Treves Brown, Drs. H. Davis, N. Evers, G. E. Foster and E. Hersant, Messrs. H. Mackie and H. Rolfe (British Pharmaceutical Conference); Dr. Katherine Coward, Messrs. A. J. V. Field, Arthur Mortimer, A. Oxford, J. Wycliffe Peck, H. F. Simnett, J. Anderson Stewart, D. J. Williams, J. H. C. Steward, L. E. Smith, Mr. and Mrs. C. A. L. Brown, Mr. G. Cockerham, Miss Y. Lovat-Williams and Miss and T. B. Chadwick and Miss M. L.

D. H. Pattinson. The Galen Lodge of Freemasons and a number of pharmaceutical manufacturing firms were also represented.

HOLTHOUSE.—On January 28, Mr. H. B. Holthouse, West Bridgford, Nottingham, aged ninety-two. Mr. Holttingnam, aged ninety-two. Mr. Hothhouse was an early associate of the first Lord Trent (founder of Boots Pure Drug Co., Ltd.), and joined that company's shop in Goose Gate, Nottingham, in 1885. At a later date he transferred to the manufacturing side of the business, and with Mr. Waring, who joined the firm in 1891, was responsible for the production of the first vegetable drugs by the company. Mr. Holthouse retired in 1931,

HUNT.—On January 17, Mr. William Henry Hunt, M.P.S., 1 Widdicombe Way, Bevendean, Brighton, 7, aged fifty-nine.

INGLIS. — On December 30, Mr. Frank Inglis, M.P.S., 35 Queen's Avenue, Hurdsfield, Macclesfield, Ches, aged eighty-four.

LEWIS. — In the Guest Hospital, Dudley, on January 23, Mr. Clarence Leslie Howard Lewis, M.P.S., 58 Mount Road, Lanesfield, Coseley, Bilston, Staffs, aged forty-nine. A native of Bradford, Mr. Lewis went to South Staffordshire twenty-two years ago as manager of a pharmacy at Kingswinford. After about four years he opened his own business in Birmingham Road, Lanesfield. He closed the business during the war, taking up an appointment as a metallurgist in an experimental factory. After the war he became manager of a multiple chemists' branch in Brierley Hill but soon set up again on his own account, acquiring a business in Kent Street, Upper Gornal. He set up a chiropody centre in Brierley Hill for treating old people at reduced cost and he devoted his weekly half day to that. It was his ambition to see such centres established throughout the country. He founded and be-came commandant of the Lanesfield detachment of the British Red Cross Society which operated from Dudley Guest Hospital during the war. He was a member of the Wolverhampton branches of the Pharmaceutical Society and of the Platina Pharmaceutical Society and Soci ety and of the National Pharmaceutical Union and chairman of Wolverhampton chiropody association. He was also a member of Brierley Hill Rotary club. He is survived by his widow.

LOWE.—On January 21, Mr. Frank Harold Lowe, M.Sc., Anstiebury, Fee Farm Road, Claygate, Esher, Surrey, aged seventy-eight. Mr. Lowe was a lecturer in organic chemistry at Chelsea Polytechnic until he retired in 1946.

McBEATH.—Recently, Mr. William Smith McBeath, M.P.S., 25 Borland Road, Bearsden, Glasgow. Mr. McBeath qualified in 1933. He was superintendent chemist to St. George Co-operative Society, Ltd., Glasgow, and was formerly technical supervisor of the pharmacies of Scottish Co-operative Wholesale Society, Ltd.

MANFIELD. — On December 21, Mr. Walter Charles William Manfield, M.P.S., 340 Harrow Road, London, W.9. Mr. Manfield qualified in 1927.

MARSHALL.—On January 18, Mr. Alfred Woods Marshall, M.P.S., 2 Alfriston Road, London, S.W.11, aged seventy.

MELLANBY. — At the Nutrition Laboratory, Mill Hill, London, on January 30, suddenly, Sir Edward Mellanby, G.B.E., M.D., F.R.S., aged seventy. Sir Edward was formerly secretary of the Medical Research Council. He received his medical education at Cambridge and St. Thomas's Hospital, London. He became a demonstrator in the department of physiology at St. Thomas's in 1909 and in 1913 became a lecturer and later professor of physiology at King's College for Women, London. In 1920 he was appointed professor of pharmacology in the University of Sheffield. He was responsible for much work on vitamins A and D. He was elected F.R.S. mins A and D. He was elected F.R.S. in 1925, and F.R.C.P. in 1928, and was appointed secretary of the Medical Research Council in 1933, retiring from that post in 1949. Some of his latest work while in that office was connected with the effect of agenised flour on the health of dogs.

SPARROW. — On January 11, Mr. Tom Rosson Sparrow, M.P.S., 26 High Street, Bridgnorth, Salop, aged eighty-

WOOD. — On January 19, Miss Emily May Wood, M.P.S., Roper & Wood, Ltd., Kington, Herefordshire. Miss Wood qualified in 1923. Her brother, Mr. John H. Wood, M.P.S., is chief pharmacist at the Royal Marsden Hospital, London.

WRIGHTSON. — On January 14, Mr. George Edmund Wiseman Wilson Wrightson, M.P.S., 11 Market Place, Glastonbury, Somerset, and formerly 22 West Coker Road, Yeovil, Somerset. Mr. Wrightson qualified in 1922.

PERSONALITIES

MR. JOHN SWAN, M.P.S., Southampton, proposed the toast "The Immortal Memory" at the Burns dinner and dance organised by the Caledonian Society of Worthing.

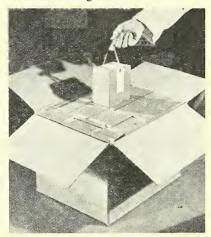
MR. S. McLOUGHLIN, who has resigned his position as pharmacy manager of Belfast Co-operative Chemists, Ltd., after twenty-three years in order to enter business on his own account, was presented with gifts by Mr. J. Ferguson, J.P. (general manager and secretary), on January 14. Presentations from the branch managers and pharmacy staff were made by Mr. Hugh McCreedy, M.P.S.N.I., and and amongst those who paid tribute to Mr. McLoughlin was his successor, Mr. T. W. Currie, M.P.S.N.I. Mr. S. McLoughlin is immediate past chairman of the Local Pharmaceutical Committee, in which he has taken an active part from the inception of the Health Services.

OVERSEAS VISIT

MR. J. LYDEN HENTON (export manager, Vitamins, Ltd.) left London on January 18 for a tour of the Middle East, and will also call at Bombay. Calcutta, Singapore, Sydney and Auck-land. He is returning to the United-Kingdom on March 3.

PACKAGING NOTES

Lifting Handle for Carton Emptying.—Taking the first package out of a tightly packed outer carton often results in damage to the contents of



the package. If the Carry-pack lifting handle is attached to one of the packages in each layer it is easily removed, enabling the remainder to be taken out no less easily. The Carry-pack is a strip of gummed paper combined with a handle of strong cotton tape. It lifts a parcel weighing as much as 40 lb. The makers are P. P. Payne & Sons, Ltd., Haydn Road, Nottingham.

An Improved Winchester. — The standards department of Boots Pure Drug Co., Ltd., Station Street, Nottingham, in an endeavour to overcome certain drawbacks in winchesters of the traditional pattern, designed an improved version which is shown at right in the illustration. The department hoped it would be adopted by



CONVENTIONAL PATTERN

NEW

the British Standards Institution, but it is understood that that body considered it "too advanced" to be accepted as a British Standard. It has, however, been adopted by the company for a range of metric bottles. The new bottle has a drawn-in foot, which lessens the danger of thin glass at the junction of the base with the wall, and decreases the vulnerability of that area in the conventional winchester. The shoulder is conical to give strength

there, to improve the distribution of glass throughout the bottle, and to enable the winchester to be emptied with a complete absence of bubbling (the line of the shoulder, if continued, misses the brim, and thus allows air to enter without interruption). The shortened neck resulting from the conical shoulder has proved in practice to have another advantage that was not planned: it discourages users from holding the bottle by the neck.

Double-walled Polythene Jar. — A public accustomed to glass jars with their comparatively thick walls tends to find injection-moulded or blown polythene jars, by virtue of their thin walls, unaccountably small. They may often gain the impression that they are receiving short weight. Fibrenyle, Ltd., 157 Dukes Road, London, W.3, have therefore developed a method of producing a double-walled blown polythene jar undistinguishable from an opal glass jar in appearance, the closure being the conventional plastic or metal screw cap. The air space left between inner and outer walls of the jar is claimed to assist in preserving the life of the contents.

Moisture-resistant Seal closure for penicillin vials adopted by Glaxo Laboratories, Ltd., Greenford, Middlesex, was evolved by the company. Its salient feature is an aluminium foil disc coated with a thermoplastic adhesive. The new closure allows the company's standard-size glass vial to be used, though there has been some modification to the shape of the neck, which now has an internal restricting edge to enable a rubber plug to be seated within the vial below the top flange. A specially shaped plug with diaphragm for easy penetration by the hypodermic needle is used, and the foil disc is sealed into position with an aluminium overseal incorporating a counter-sunk centrepiece. When spun into position the overseal securely holds the rubber plug against certain stresses, including violent atmospheric changes, liable to affect the package during storage and transport.

Pilferproof Scal. — Metal Closures, Ltd., West Bromwich, Staffs, have produced a pilferproof closure for bottles, the Sccu R.O., that can be applied by any R.O. seal machine. The security band screws off easily once the bottle is opened, but is described as "100 per cent. tamper-proof" beforehand.

PHOTOGRAPHIC NOTES

Composite Pack. — May & Baker, Ltd., Dagenham, announce that a new composite pack of Amfix ultra-rapid fixer is replacing the present composite pack and multipack. The new pack contains a 10-oz. bottle of the fixer concentrate and 1-oz. of hardener (in plastic sachet instead of bottle).

"Top Flight" Camera.—The G.B. Kershaw 630 camera has "the style and finish of a top-flight camera, modestly priced." Taking 2½-in. square pictures the camera has a Kershaw Otar 80-mm. f/6·3 coated anastigmat lens in focusing mount; built-in direct vision optical viewfinder; Vario 00 shutter with three speeds (1/25, 1/75, 1/200) and B, synchronised for flash, and with cable-release socket; baseboard shutter release; all-metal body in grained leathercloth covering. The price was reduced on January I. The distributing company for Kershaw cameras is G.B. Equipments, Ltd., photographic and optical division, 37 Mortimer Street, London, W.1.

Selling Price of Colour Films.—The Eastman Kodak Company, Rochester, New York, U.S.A., in a Consent Decree with the United States Department of Justice, has agreed to eliminate the processing charge from the selling price of its amateur colour films and to make a separate charge for processing. Hitherto the company has sold Kodachrome film for still photography, Kodachrome substandard motion-picture film, and Kodacolor film at prices that have included free processing by the company or any of its associated companies throughout the world. The American Department of Justice contended that that method of selling film was intended to prevent other firms from processing it. The charge was denied, but the company has agreed to discontinue the practice. When origin-

ally introduced the processes involved difficult colour-control problems. Each improvement has involved heavy expense in discarding or modifying equipment. The fact that improvements have been a continuing aspect of the development of the products would, the company claims, have made it difficult for outside photo-finishers to engage in the work. The terms of the arrangement provide for the changes in marketing methods to take place gradually. Kodachrome for still photography will not be sold in the United States at a price exclusive of processing charges until the autumn of this year; 8- and 16-mm. Cine-Kodak Kodachrome films will not be sold without processing charges until well into 1956. The change in respect of Kodacolor is not expected until towards the end of 1955. the The arrangements affect only United States and its territories. Kodak, Ltd., Wealdstone, state that they do not intend to make any change in present procedure of selling Kodachrome film at a price that includes the processing charges. When the Eastman Kodak Company put their colour materials on the market in the United States without processing charges, Kodak, Ltd., will process such films as may be sent to them for processing at Harrow and will charge the customer for the work. Information on charging and methods of forwarding will be issued to Kodak dealers well in advance of the time when such film may be handed to them for processing. Kodak Pathe, S.A., in France and all other Kodachrome processing stations outside the United States are expected to adopt the same procedure.

Paris Photographic Exhibition.— The Biennale de la Photo et du Cinema is being held in Paris, May 4—16 (commercial days reserved to professional

photographers and dealers, May 4 and 5). The aim of the exhibition is to demonstrate the importance of the photographic picture in contemporary civilisation. For that purpose, photographers in all countries are invited to submit prints (in accordance with printed conditions). There are no entrance fees, but whether the prints are exhibited depends on the approval of a jury, whose decision is final. Acceptance qualifies for a diploma. A limited number of copies of the regulations and of forms to send with entries are obtainable from the Editor, C. & D.

TRADE NOTES

In Tablets or Capsules. — Stephen Matthews & Co., Ltd., 19 Farringdon Street, London, E.C.4, announce that Curicones are available as either capsules or tablets at the same prices, terms and profits.

THE NEW PACK: Redesigned carton for Farex three cereals adopted recently by the manufacturers,
Glaxo Laboratories,
Ltd., Greenford (see
C. & D., November 27, 1954, p. 540). The change coincided with a change of formula (separated milk powder and vitamins B_1 and B_2 added).



Spray Replaces Drops. — British Schering, Ltd., 229 Kensington High Street, London, W.8, are shortly discontinuing the production of Albucid nasal drops and in their place introducing to the medical profession a special Albucid nasal spray.

Prizes for Newcastle Window Displays.—A window display competition for chemists in Newcastle-on-Tyne is being staged from January 31 to February 12 by H. W. Carter & Co., Ltd., makers of Ribena blackcurrant juice. Over three-quarters of those eligible are taking part. Judging takes place on February 9, and prizes are being presented on February 10. Judges in the competition are Mr. A. Shepherd (Publisher of THE CHEMIST AND DRUGGIST), Mr. P. North (advertising manager of H. W. Carter & Co., Ltd.) and a Newcastle housewife.

Free Magazine for Children.—One million copies of a children's magazine entitled The Seagull are being diszine entitled The Seagul are being distributed to chemists in the British Isles. Produced by W. S. Crawford, Ltd., the magazine is published by British Cod Liver Oils (Hull & Grimsby), Ltd., makers of SevenSeaS products. It includes, in addition to articles and illustrated features, details of the comprehisions the first for a of two competitions, the first for a painting to illustrate one of the stories, the second to write an adventure story of 750 words. Each competition is divided into two classes: for children up to, and including, eight years of age; and for those between nine and twelve. Separate prizes are being given for girls and boys. Closing date for entries: March 31. The prizes include radio sets, watches, cameras, etc. The magazine is distributed exclusively through chemists.

Test Campaign.—To investigate the various purposes for which Scrubb's ammonia is being used in Essex, Scrubb & Co., Ltd., Morden Road, London, S.W.19, have organised a competition offering weekly free tickets for any London theatre and cash prizes of £5 for the best hint and slogan sent in by a user. Entry forms are attached to every bottle sold during the period. The competition runs for thirteen weeks (March to May), and is being advertised each week in local newspapers, the advertisements including a picture of the winning entry each week, to-gether with the winning hint and slogan. Runners-up receive shopping baskets. A prize of two theatre tickets is being given to the dealer who sold the bottle with which the winning entry form was supplied.

Fairs and Exhibitions

THE St. Erik's Fair, Stockholm, takes place August 27 to September 11. The British agents are Thirza West Publicity, Ltd., 141 New Bond Street, London, W.1.

THE Electrical Engineers' Exhibition, 1955, is being held at Earls Court, London, S.W.5, March 15—19, Electric motors are being specially featured.

THE International Dry Cleaning, Dyeing and Allied Trades Exhibition, 1955, is being held in Munich, Germany, July 15—24.

E55 (the Dutch Energy exhibition, 1955) takes place in Rotterdam from May 18 till September 3 to commemorate Holland's survival from the 1939-45 war. The Dutch Government and industry will show what has been done during these ten years to restore Holland. Included in the exhibition will be a chemistry hall.

Bonus Offers

Cussons, Sons & Co., Ltd.: Thirteen Apple Blossom hand cream supplied on orders for one doz.

WRIGHT, LAYMAN & UMNEY, LTD., 42 Southwark Street, London, S.E.1. In van delivery area, twelve Wright's domestic or anti-pest preparations invoiced as eleven.

NEW PRODUCTS AND PACKS

Non-greasy Hand Cream.—Apple Cussons, Sons & Co., Ltd., 84 Brook Street, London, W.1, is non-greasy and fragrant. It is issued in a cartoned tube. Apple Blossom bath and toilet soaps, bath cubes, talc and foundation cream are also available.

Vitamin Capsules for Children .--Specially designed for children, particularly those between the ages of five and fourteen, Rexall "junior" Plenamins contain eleven vitamins, including B₁₂, with folic acid, liver concentrate and iron. Trade terms and full particulars may be had from the Rexall Drug Co., Ltd., Loughborough, Leics.

Infra-red Lamp.—Philips Electrical, Ltd., Century House, Shaftesbury Avenue, London, W.1, are marketing an infra-red lamp, the Infraphil, which is fitted with an untarnishable reflector and can be stood on its base or hung from a wall. It has a circular arm that may be adjusted to turn the lamp in any desired direction. Power consumption is only 150 watts.

Lavatory-pan Cleansing Disinfectant. — New Hygiene, Ltd., 266 Holloway Road, London, N.7, are marketing a new fitting, Swish, with stainless-steel clip to fit under the rim of a lavatory-rep and holder for darket. lavatory-pan and holder for deodorant block. The block is stated to contain a solvent, a disinfectant and a deodorant. The block (wrapped in transparent tissue till required) is understood to last for six to eight weeks. Trade terms may be obtained on application to the company at the address given.

Chocolate-flavoured Bulk Aperient. —A new product, Aperigran aperient granules, issued by Fletcher, Fletcher & Co., Ltd., Vibrona Laboratories, London, N.7, is a preparation of sterculia (karaya) gum. It passes unchanged through the alimentary canal and achieves its effect by reason of its affinity for water, ensuring a soft stool and the necessary bulk. Aperigran is issued in a $4\frac{1}{2}$ -oz. tin (and a 5-lb. tin for hospitals). The product is being advertised to doctors but not to the public.



MEDICAL REPRESENTATIVES' CONFERENCE: Medical representatives of Clinical Products, Ltd., 2 The Green, Richmond, photographed with directors and executives at the company's annual conference at the works recently.

FIGURES IN THE PHARMACEUTICAL WORLD

A T the Branch Representatives' meeting held during the British Pharmaceutical Conference, 1954, one of three papers read was written and presented by Mr. A. Sterling, B.Sc., F.P.S. (chief pharmacist at St. George's hospital, London). To many of his audience, Mr. Sterling was previously unknown, but if the purpose was to bring hospital problems to the attention of pharmacists drawn predominantly from other sections of the profession the choice could hardly have been bettered. Mr. Sterling is not given to flights of oratory. He is not an aggressive or even a partisan speaker. The survey he gave was thorough, informative and, above all, scrupulously moderate. He neither concealed nor over-emphasised differences of opinion (at that time quite acute) among his colleagues in hospitals about the proper line of development for the future of public pharmacy.

The broad outlook of Mr. Sterling stems from a varied and perhaps unique experience; the penetrating analysis from study and self-discipline; and the thoroughness from early training and high standards. A comparative newcomer to hospital pharmacy (his only hospital post has been at St. George's hospital, and he was appointed to it only so recently as 1948) Mr. Sterling has always been keenly attracted to work for the alleviation of human suffering. He seems ideally placed at the head of a pharmacy department of a metropolitan teaching hospital. He arrived there by an unusual route.

At school in co. Durham his favourite subjects were chemistry and physics, and it was not difficult for his pharmacist father to influence that aptitude to a choice of pharmacy as a career. An apprenticeship served with W. Owen & Son, dispensing and manufacturing chemists, Newcastle-on-Tyne (originators of Lucozade) was, as he thorough. Included in the training, for example, was a weekly "examination" by the apprenticeship-master on the drugs that the apprentice had been handling. As he had already passed the Inter B.Sc. examination (and the Inter B.Sc. examination (and therefore was exempted from the Preliminary Scientific examination of the Pharmaceutical Society) before becoming indentured he was able to devote ing indentured he was able to devote his evenings to lessons, primarily for Apothecaries' Hall students, in pharmacy at the Sunderland Technical College (T. D. Whittet was a fellow student). At the completion of his apprenticeship he went, on the advice of Harry Noble (a fellow apprentice at W. Owen & Son) south to London and the Pharmaceutical Society's school for his pre-qualifying studies. The Chemist and Druggist qualification he gained in 1937, passing the Pharmaceutical Chemist examination the following year. He stayed on at the school as assistant lecturer in the department of pharmaceutics, and thus department of pharmaceutics, and thus entered on the second-academicperiod of his career. Lecturing in the

daytime was followed by evenings



26. Mr. A. STERLING

studying for the London B.Sc. degree at Birkbeck College. The war intervened before his studies were completed, taking him with the school of pharmacy to Cardiff. The school staff had a tough time setting up a pharmaceutical department in empty rooms, but the demands on resource and energy developed character and confidence. When the course of the war focused attention in 1940 on the need for a blood-transfusion service, technical skill and knowledge were especially required, and Sterling was appointed Scientific Officer to the National Blood Transfusion Service (Wales Region), entering on the third period of his career. In eight years with the Service he built up (again from scratch) an efficient organisation doing work for which his previous training and experience seemed to have conspired to equip him. He was responsible also for testing the products of the labora-

tory, did a good deal of the early work on Rh groupings, and helped to develop methods of processing plasma and serum.

The time came when all the pioneer work demanding quasi-pharmaceutical skills had been done, and when, moreover, he wanted to get married and earn a larger salary. It was then that he entered the fourth and—so far—latest stage of his career by taking up the appointment of chief pharmacist at St. George's hospital. As a "public" pharmacist he had co-operated with Mr. E. T. Griffiths of the Cardiff Royal Infirmary and colleagues in establishing the South Wales Branch of the Guild of Public Pharmacists, and had come to take a keen interest in the problems of hospital pharmacy. The taking up of his new duties co-incided with the commencement of the National Health Service. The problems of expansion and adaptation at

the hospital called for the same qualithe hospital caned for the same quarties of initiative, self-reliance and energy as had been twice drawn upon at Cardiff. At St. George's he has been responsible for the installation of a sterile products laboratory (probably one of the first to be carried out in laminated plastic materials); and has raised the status of the department in various other ways. He has organised, and supervises, the drug supply service for the other hospitals in the Group,

to which he pays regular visits. Return to London brought a return also to academic study, this time at Unito academic study, this time at University College, from which he gained in 1952 the B.Sc. special degree with honours in physiology.

At St. George's today reconstructions are in progress, following the Governors' decision not to transfer the bearing from the progress.

hospital from the site. From those reconstructions the pharmacy department will eventually benefit, and its chief gain greater scope.

He plays a full part in the technical advancement of pharmacy outside the hospital. He has been for five years a member of the pharmacy subcommit-tee of the British Pharmaceutical Codex, was a member of subcommittee 6 D (capsules) of the British Pharmacopæia, 1953, and serves on committee 8 (galenicals) of the B.P., 1958. A full part? There is little doubt that it will be an increasing one.

BEGINNINGS OF CHEMISTRY

Were its origins in alchemy or technology?

THE question whether modern chemistry had its origins in alchemy or technology was discussed by Dr. D. McKie (reader in the history of science, London University) at an evening meeting of the Pharmaceutical Society held in London on January 17. Introducing the speaker, MR. W. S. Howells (treasurer of the Pharmaceutical Society) said that the subject was of interest and while heart of the property and the property terest and value beyond the pharmaceutical field. Although originally a physical chemist, Dr. McKie had devoted himself for many years to the history of science, especially chemistry.

McKie opened his address, which was illustrated by lantern slides, by saying that the question whether chemistry arose from alchemy or technology was a problem which was coming into notice at the present time. It had always been said that chemistry was the child of alchemy, but one or two things should be borne in mind.
There had been no very long study of the history of science or even of the history of chemistry. The immediate predecessors of the chemists of the seventeenth and eighteenth centuries had often been described as alchemists.

The literature of the alchemists was so plentiful that on studying the literature alone one would be convinced that progress was from alchemy to chemistry. Of the literature of technology, very little had survived, and it was not such as would attract historians. There were records of prescriptions which went back before alchemy. The following recipe for making coloured glass, dated about 700 B.C., was pure technology:—

7,200 parts of glass paste 32 parts of tin oxide 20 parts of antimony - parts of salt 1 part of gold?

That complex recipe must have been the result of a great deal of experi-ment. The vast technical knowledge of ancient Egypt was remarkable.

Rise of Alchemy

Alchemy arose in the early centuries of the present era in the city of Alexandria, and was first known under the name *chemeia*. The alchemists carried out such processes as distillation, melting waxes, digestion and sublimation. The theory behind the work was that of the four elements, air, fire, earth and water; all sub-stances being believed to be composed of them in varying proportions. The alchemists believed that by changing the proportions of those elements one substance could be changed into another, and especially that the base metals could be changed into gold.

Throughout the Alexandrian and Christian eras and during the thirteenth, fourteenth and fifteenth centuries, chemistry was none other than alchemy, and those beliefs persisted until the end of the fifteenth century when, at the time of Paracelsus, the beginnings of modern chemistry could

be seen.

There was, however, Egyptian technical knowledge that was not absorbed into alchemy, and there were other manuscripts besides alchemical ones, copies of which exist today. There were chemical writings of Alexandria There that dated from about the same time as the alchemical manuscripts, but had nothing to do with alchemy. They were more decipherable and quite different. Some of them described the preparation of synthetic gems on a manufac-turing scale for the bazaars and cheap turing scale for the bazaars and cheap stores of Alexandria, and dated back to the third century A.D. There were recipes for the purification of tin, to determine the purity of tin, to "double" alloys of gold and silver, to give objects of copper the appearance of gold, etc. There was, unlike the alchemists' recipes, no pretence about such formulas: they did not pursue. about such formulas: they did not purport, for instance, to change copper into gold. They were recipes which were used on a manufacturing scale, representing an early chemical industry.

Technology a Craft

It was difficult to trace the progress of chemistry from that early technological period. Technology was a craft which was passed on, not through literature, but from father to son. By the year 1500 there was a vast collection of literary manuscripts, but very few technical ones. Those that sur-vived repeated the old technological recipes. They had nothing to do with alchemy

Just after the year 1500 there began to appear certain books dealing with mining and assaying. Most of them were printed in German. The first great book on technology was the *Pirotechnica* of Biringuccio, published in 1540. In it the author jeered at the alchemists and described the technology of his day, which was most impressive. There were illustrations of blast furnaces, distillation processes of sulphur and alcohol, and the manufacture of charcoal. The first technological work printed in German was a mining booklet dated 1505-10, and several other illustrated books on mining and

assaying were printed in German and Latin during the sixteenth century.

The question to be decided, said DR. McKie, was whether the origins of chemistry were really to be found in alchemy. How far did chemical technology play a part in the rise of chemistry? Only recently had early books on the subject been available, but even if the theory of alchemy as the father of chemistry were accepted, it must be recognised that ancient technology had some part in the rise of modern chemistry in the seventeenth century.

In the discussion that followed, Dr. J. W. FAIRBAIRN (head of the pharmaognosy department, School of Pharmacy, University of London) asked whether there was any evidence that the theory of the four elements arose from technological knowledge. Dr. McKie replied that technological literature contained no reference to alchemy and he could not see any connection established between the two. Dr. McLachlan said he would have liked to see the study of medicine linked up with the study of chemistry.

DR. McKie said he had deliberately excluded medicine from his lecture, but it had certainly played a part in both technology and alchemy.

Dr. L. K. SHARP asked whether alchemy could have had a stultifying effect on technology. Did the technologists ever listen to the alchemists? DR. McKie said they held them in undisguised contempt. Alchemy probably had no stultifying effect but there was something unsatisfactory to science in the outlook of the alchemist, who looked back instead of forward. Mr. L. G. MATTHEWS (chairman of the Society's history of pharmacy committee), in thanking Dr. McKie for his lecture, said that Dr. McKie had shown that there was a whole field of endeavour and interest that it was as well for pharmacists to know something about. They were indebted to Dr. McKie for showing them a new aspect of the development of scientific work.

N.H.S. STATISTICS

In NOTTINGHAM during April-December 1954 the total cost of the pharmaceutical services was £651,654.

In East Sussex during April the average total cost per prescription was 4s. 6:53d., and during May it was 4s. 8.28d.

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A City of London with Too Few Shops?

THOSE who have had much to do with the City of London since the war know that progress towards reconstruction of the areas devastated by enemy action has been, so far as visual evidence goes, slight. Many interests are involved and it is, of course, wise and right not to rush in and put up buildings that might be regretted or cause impediment to future development. Plans have to be made, and they have to be approved. Even before the plans are made the underlying principles on which the planners are to work must be discussed and accepted, and the City of London Reconstruction Advisory Council has no doubt considered the views of many interested parties. One such statement of view was made in September 1944 by the City of London Retail Traders' Association; parts of it were also laid before the improvements and town planning committee of the City Corporation. The representations drew attention to the fact that for many years there had been a steadily diminishing number of shop premises, whereas reconstruction of the desolated areas would restore the day population the City had had in pre-war days.

The Association had grounds for believing that its point of view had gained some acceptance. In the final report of the joint consultants to the improvements and town planning committee, presented in April 1947, there were suggestions for small open spaces, pedestrian ways, and shopping circuits, and it was recommended that there should be no discrimination in principle against the provision of retail shops, provided they were grouped wherever possible "in a situation of maximum accessibility to pedestrians." In February 1948, too, Professor Holford, who might fairly be described, possibly, as the principle planner, said that there was little need to anticipate a reduced total frontage for shops, even though it was intended to provide for more restaurants. In the reallocation of shopping premises there would be, he said, consultations between the Corporation and retail trade.

Yet a memorandum just put out by the Association shows that its members are today seriously concerned at the way in which, despite those promising signs, the City is in fact being reconstructed. The fear is expressed that, if things continue as at present, a substantial reduction in the number of shops will be the result. The memorandum gives examples of situations from which, under the plans, office workers will have to go a fifth of a mile, or even a third of a mile, to

their nearest shop. In a residential area that might not be too serious. But the City's population is a daytime population of office workers, whose shopping has to be done near at hand in a limited luncheon interval.

The Association is also critical of the design of those premises in which provision is made for retail shops. The architect, it declares, has been more concerned with the general features of a building as a whole than with the needs of its future occupants. "It is essential that there should be no loss of window space at the expense of large concrete façades and pillars."

Pharmacies, of course, are only one of many types of shop that will have to be provided for in the rebuilt City. It cannot be denied that their number declined during the 1939-45 war, partly on account of evacuation, but possibly also because it was becoming more difficult to make a pharmacy pay at the rents which City premises command. Nevertheless, there must be adequate provision for the health needs of the millions who use the City by day even if they leave it virtually empty at night. The National Health Service, indeed, introduces a factor that did not previously exist. When the City is fully rebuilt and employing its full quota of workers, many of them will want to have their prescriptions dispensed near their place of business rather than near their home. It would be ludicrous if City conditions came even remotely to resemble those in some rural areas, where the "mile limit" takes the dispensing from the pharmacy into the doctor's surgery.

The London Retailers' Association is most reasonable in its representations. It fully recognises that a greater degree of order must be brought into the placing of the shops that always existed in the old days. It makes its representations in a constructive and co-operative spirit and phrases them most moderately. We may hope that the authorities will be influenced to look more closely into the matters that are the cause of the Association's anxiety.

What to Pay a Wife

EMPLOYED in her husband's business, a wife can effect a substantial saving in his income tax. She must, of course, be genuinely engaged in the business, and must be actually paid a regular wage or salary, from which the appropriate amount of P.A.Y.E. must be deducted. What should the wife receive by way of wage or salary? There is an optimum figure arrived at by calculation from the various personal and earned-income allowances and reliefs and the tax rates at various levels. A married man with no children claims the personal allowance of £210; and earned-income relief equal to 2/9ths of his earned income up to a maximum of £450 (i.e., 2/9ths of £2,025). The tax rates are, on the first £100 of taxable income, 2s. 6d. in the £1 (£12 10s.); on the next £150, 5s. in the £1 (£37 10s.); and on the next £150, 7s. in the £1 (£52 10s.). Above £400 the standard rate of 9s. in the £1 applies. A married woman is entitled not only to the earned-income allowance of two-ninths of her earned income but also to the "wife's earned-income allowance" of seven-ninths of her net earnings up to a limit of £120.

The aim should therefore be to give the wife a wage or salary that stops short of bringing any part of her income into the 9s.-in-the-£1 area of taxability, since at this point no further advantage is to be gained.

Calculation shows that the maximum salary or wage to be paid to the wife employed in her husband's business is, for full tax advantage, £668. From that there are an earned-income relief of £148 (2/9 of £668), and a wife's earned-income relief of £120 (maximum) (at 7/9) leaving £400 on which tax would be at the varying rates of 2s. 6d., 5s. and 7s. as explained above, and would total £102 10s. Had the wife not been employed in the business, £668 would have been retained in the business as part of the taxable profits. Assuming that the husband was paying at 9s. in the £1 on part of his income, he would have paid £131 10s. more than if he had employed his wife in the business, paying her a salary of £668.

As the husband would be entitled to (a) the personal allowance of £210 and the earned-income relief of 2/9ths, one finds that with his wife taking the £668 out of the business as a wage or salary, he must have

£784 for himself alone out of it, in order that both he and his wife should just escape falling into the 9s. in the £1 category of taxpayer.

Thus:—

Husband's own earnings from business
Deduct (a) personal allowance ... £210
(b) earned-income relief 2/9ths
of £784 174

£384 384

£400

Therefore if a business is earning round about £1,450, the division between husband and wife which would produce the best results would be to give the wife a wage or salary of about £670 p.a., the husband taking the balance.

Onward from Galen

A CURRENT CAUSERIE

In their 7th annual production on January 31 and February 1, the Allenburys amateur dramatic society put on at the Fortune Theatre, London, a polished presentation of the Noel Coward play "Relative Values." Well schooled by their producer, Miss Muriel Dommersen, a competent caste of ten drew their full quota of laughs from the author's satirical thrusts at the notion of social equality intruding into a citadel of the English aristocracy. A Jenkyn in looks and a Jeeves in resource, Reginald Mitchener added a comically lugubrious touch to his stage butler, and Miss Beatrice Bird cleverly blended confidence and confusion in her transformation from lady's maid to secretarycompanion. Undoubtedly, however, it was Miss Phyllis Whitehorne's evening of triumph. In gesture, inflexion and timing she showed a mastery of her art, and the elegant dresses she wore as Countess of Marshwood were carried with grace no less than authority. The performance proved also a social occasion for the profession, the first-night audience including the president of the Pharmaceutical Society, the chief pharmacist of the Ministry of Health and directors of pharmaceutical houses among many distinguished pharmacists.

*

By courtesy of James Townsend & Son, Ltd., printers, Exeter, we revive memories of a form of advertisement

THE BOUQUET PLINAINACK For 1903.

Supplied by JAMES HAMERTON, Pharmaconficial Chemist, 1, Springhank Rd., Hither Green, S. E.

once popular among chemists. The "Bouquet Almanack for 1903," here reproduced, is typical of publications produced about that time by chemists' printers for overprinting (on each page!) with the chemist's name and address. Facing each calendar page was a list of medicinal preparations, household requisites, toilet requisites, mineral and aerated waters, appliances surgical and sundries, and photographic chemicals, apparatus and Considering the materials. small size of the page (only $3\frac{1}{2} \times 2\frac{1}{4}$ in.), a surprisingly large proportion of the

stock-in-trade of a pharmacist at that era received mention. Facing January, for example, there are listed effervescent grape saline, fluid extract of

Jamaica sarsaparilla, stomachic powder, concentrated of Jamaica ginger, aromatic concentrated essence sweet essence of Alexandrian senna, camphorated sal volatile, concentrated solution of camphor (Rubini), granular effervescent citrate of magnesia, tincture of arnica and chilblain paint. Nor were they all merely names. The camphorated sal volatile was "useful to ladies who suffer from Faintness, Hysteria, etc.," and of the grape saline it was said that "this popular remedy is well known as a cooling and purifying aperient in cases of Biliousness, Constipation, Indigestion, etc., &c., or as a refreshing draught. Equal in medicinal value, but much less expensive than other preparations of a similar character." There were pages of postal information, rules for a sick room, and rulcd pages for memoranda. The compiler has certainly to be congratulated that in the calendar pages, under "Remarkable Days, etc.," he found something to note about all 365 of them. One wonders whether any of these dainty and informative miniatures have survived elsewhere than in printers' museums.

*

POLYPRAGMATISM is the *Lancet's* surgical counterpart to polypharmacy. Its Peripatetic Correspondent (or one of them) has contributed the following verses to the January 22 issue:—

Disease and cure
Are oft obscure.
Physicians in such
Cases prescribe too much,
And that heresy
Is called "polypharmacy."
Surgeons remove
When in doubt,
Sundry bits and prove
Man can do without.
The knife, thus erratic,
Is "polypragmatic"!



According to figures issued by the United States Air Forces in Europe, nearly \$19 millions (£6.78 millions) was spent by American airmen on British goods and services in 1954. Their buying agency, A.F.E.X. (similar to the British N.A.A.F.I.) bought £133,550 worth of British-made drugs and cosmetics in ten months. That figure included 1½ million 3-oz. bars of soap costing £25,000 and 5.5 million razor blades (£39,285). Photographic equipment purchases for the year cost £142,857, about 10 per cent. of which

was for $2\frac{1}{4}$ x $3\frac{1}{4}$ -in. films. That shows great advantage to British industry, even if it by-passes the practising pharmacist.

ONE of the points of advantage found in the new design of a winchester mentioned elsewhere (p. 138) is that its short neck discourages picking up the bottle by the neck. That that is a dangerous practice is well proved. It was reported fairly recently that a serious fire occurred in a Glasgow laboratory when the bottom fell out of a winchester of ether held that way. In industry the now accepted way of lifting and carrying winchesters is by means of a

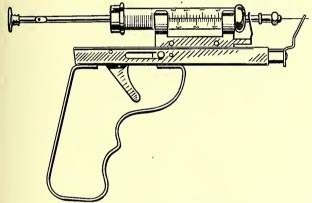
handled frame. In a pharmacy there is small place for such frames, but there are dangerous practices. How many pharmacists pour from a winchester held in one hand? With a full winchester and the hand at stretch that leaves little margin of safety. If 80-oz. bottles were designed exclusively or mainly for use by pharmacists in dispensaries they would perhaps have a couple of depressions in the sides rather like those in a "dimpled" whisky bottle, to give a better grip. Definitely the winchester is better adapted to storage than to manipulation. And for that purpose the plastic caps that have been seen in some chemical works are preferable to stoppers or corks.

PAINLESS INJECTIONS

by means of a new medical instrument

By L. R. C. HAWARD

NEW medical instrument which the retail chemist may soon be asked for over the counter is the Palmer injector, which has been described as the greatest boon to the diabetic since the introduction of insulin. Designed by Mr. Charles Palmer, Fort William, himself a sufferer from diabetes, the gun is now being produced in quantity. It is finding a ready sale both to the public and to hospitals and clinics. Many hundreds of patients now using the gun claim a completely painless injection every time.



The accompanying illustration shows the general layout of the instrument. There are two models: the No. 1, which has a fitting for 1-mil or 2-mil syringes and gives a variable penetration from zero to 2 cm., and the No. 2, designed for the larger 5-mil and 10-mil syringes with a corresponding increase in maximum penetration to 5 cm. The gun can be operated in either hand, in any part of the body. A person making a self-injection can thus inject either arm quite easily. In fact, one semi-paralysed lady has been enabled to inject herself for the first time since a stroke many years ago deprived her of the full use of her arms. The base plate has been designed to gather the skin unaided in preparation for the injection, and the high forward speed of the needle obtained with a contracting spring, and the controlled depth of penetration, combine to produce a highly efficient and non-varying injection. The instrument is precision manufactured in stainless steel by the engineering firm of McGregor & Alves, and is marketed by Palmer Injectors, Ltd., Torlundy, Fort William.

The new instrument is finding uses not envisaged when it was first designed, and a number of modifications for specific projects in medical research are under consideration. After clinical trials, many hospitals are using the injectors for the routine administration of penicillin, antidiphtheria serum, and insulin. A particularly favourable response has been recorded in children's and school clinics, and the gun has been found efficient for both subcutaneous

and intramuscular injections.

To judge its operating efficiency compared with that of traditional methods of routine dermal penetration, the gun was subjected to a comprehensive investigation in the writer's department under experimental conditions. A large group of neurotic patients was used, selected for their overreaction to pain and physical discomfort. As part of the routine psychometric testing programme, the patients had their skin pierced twice, once by the injector and once manually with a hypodermic needle, the order of use being alternated with each patient. To make conditions comparable, a dummy baseplate was pressed against the skin when the standard method was being used. At the moment of penetration, the injector was fired adjacent to the site of injection, so that both tactile and auditory sensations should be equivalent. The patients were prevented from seeing the operation by a screen at the side of the face. Afterwards they were asked to say which prick they felt the most. The results were a 100 per cent, success for the injector. Since both injections had been made in what the patient believed to be an identical manner, the estimation was related directly to the physical nature of the injection.

The instrument has another undoubted advantage over the traditional method, since it provides an impersonal relationship between the patient and the needle. It thus eliminates the mental conflict which the self-inflicting of pain normally produces. Moreover the efficient operation of the gun produces an identical experience each time it is used, by contrast with the wide limits of variability associated with syringe-administered injections.

Psychological Pain Eliminated

The injector eliminates psychological pain, too, for medical research has shown that memories of a previous painful experience enhance the anticipatory fear and actual discomfort of the subsequent one. For that reason the Palmer injector is effective in eliminating both the psychic and physical elements of pain. But it is hard to convey in cold figures and hard facts what such a device means in terms of human feelings and the alleviation of suffering. Instead, a lay viewpoint may be quoted: "I usually go into the back kitchen while my daughter injects herself and pretty often am there for nearly an hour. She would be crying and couldn't get the needle to penetrate, then when she did the insulin wouldn't go in, as if the needle got clogged or out of action. My heart has been broken looking on at this for the past ten years. Her little boy and I were praying for her Monday morning as usual, before we got started she came in with the injector in her hand and said it was done. I couldn't believe it, and we both started crying for joy . . . the winning of the pools couldn't have meant so much to us at this has done." A device that produces such a result is something the chemist can be proud to recommend.

A BRISTOL PHARMACY PASSES

Ferris & Co., Ltd., concentrate on manufacturing and wholesale activities

HE closing of a pharmacy as long-established as the St. Stephens Street, Bristol, business of Ferris & Co., Ltd. (it was in 1770 that the firm was founded) cannot but be matter for regret. In the present instance the ringing down of the curtain heralds large-scale developments in the company's main activities of manufacturing and wholesaling

The history of the closed pharmacy can be traced back nearly 200 years. In that time it has had three homes, and survived two major catastrophes. The first was when the original premises in Union Street were destroyed by fire in 1834; and the second when the premises in Union Street, which had been occupied since the disaster of 1834, were destroyed by enemy action on November 24, 1940. On that fateful Sunday, Bristol had its first heavy air raid of the 1939-45 war. Although all the incendiary bombs that fell on the building were put out by the company's firewatchers, it was more than they could do to dowse the flames from adjoining premises. The premises therefore failed to survive, and the pharmacy had to move in 1940 from Union Street to the premises that have now been sold.

The business was established in 1770 by Mr. Tilladam, a member of the Society of Friends. After his death his widow carried on the business until her retirement early in the nineteenth century. She was succeeded by John Fry, a member of the famous family of cocoa and chocolate manufacturers and another Quaker.

Fry took into the business a Mr. Gibbs, and in 1812 the firm was known as Fry & Gibbs. Shortly afterwards Richard Ferris was admitted to partnership, the firm being thereupon styled Fry, Gibbs & Ferris. That partnership continued until 1825, when Gibbs decided that pharmacy did not pro-



Original premises of Fry, Ferris & Brown in Union Street destroyed by fire in 1834.

vide sufficient scope for his business ability and forsook it to interest himself in railways and the manufacture of alkali on a large scale. His interest in railways proved ill-fated for he is said to have been decapitated on putting his head out of the window of his coach as it entered a tunnel.

Gibbs's place in the firm was taken in 1825 by a Mr. Brown. By that time the business was specialising in aerated waters. They had one of the earliest plants for their production in the country.

1833 saw the retirement of Fry, and the entry of one, Capper. The name became Ferris, Brown & Capper. The partnership was soon tested by the 1834 fire that broke out on a Saturday night, when an assistant dropped a bottle of ether. According to the records, the mayor and the authorities, with the help of the partners, assistants and workpeople, endeavoured unsuccessfully to extinguish the fire,

but valuable stock and ledgers were saved. The partners were undismayed, and obtained further premises in Union Street the same night, opening the business "as usual" on the following Monday morning.



Premises of Ferris & Co., Ltd., built in Union Street in 1834 and destroyed by enemy action in 1940.

About that time the firm opened a branch at The West Mall, Clifton, under the supervision of Mr. George Brown; and a few years later started business in Clevedon.

The importance of the business was established when it secured the appointment as chemists to King William IV. The warrant was renewed in 1840, when Ferris, Brown & Score, as the firm were then known, were appointed chemists to Queen Victoria. In September 1841 the firm published a 52-page booklet entitled "Directions for the Family Medicine Chest, and a Catalogue of Drugs and Chemicals, Select and Miscellaneous Articles, Patent Medicines, &c., &c." On the reverse of the title page, in the formal but smooth-flowing language of the time, is a note:—

"Messrs. FERRIS & SCORE having disposed of the Business at the Mall, Clifton, with a view to give their undivided attention to their Establishment in Union Street, are anxious to avail themselves of this opportunity to express to their Friends and the Public, their deep-felt gratitude for the distinguished preference they have so long enjoyed, and to assure them it is their determination to merit a continuance thereof, by devoting their constant personal superintendence to every branch of their Business in Union Street.

"The Dispensing Department will, as usual, claim their special care; and for this purpose, Mr. Ferris has fixed his residence on the Premises, where he will be at all times accessible."

The booklet is prefaced by an "address" signed Ferris, Brown & Score. It describes the fitting up of a medicine chest, and points out that "any of the medicines indexed as for the medicine chest may be had separately." The concluding four paragraphs give an interesting picture of how the business was conducted; they are as follows:—

"To secure accuracy and dispatch, our establishments are divided into separate departments, each superintended by a responsible confidential assistant, and the whole under our constant unremitting personal care.

"The most vigilant attention is given to the dispensing of prescriptions, with which no other department is permitted to interfere.

"As manufacturers and importers, we are enabled to pledge ourselves to use and sell only such drugs and preparations as are of the purest character, whilst the extent of our consumption is a guarantee not only of their being good but fresh.

"In fine, our object in the management of our business is under a deep conviction of the responsibility involved, and with a view to require the confidence of our friends and the public, to devote to it our undivided attention, and for this purpose we have fixed our residences on the premises, where we are accessible at all hours.'

Forty medicines and articles are listed for inclusion in the chest. They include adhesive plaster, blue pill, cream of tartar, Dover's powder, grey powder and James's powder. The equipment for the chest is given as a graduated wine glass, glass pestle and mortar, glass funnel, lancet, lint,

spatula, scales and weights.

Each of the forty items is given a monograph in the catalogue describing the properties and giving the dosage, etc. For example, James' powder is described as having the properties of a febrifuge and sudorific. The dose is given as gr. 3-6 twice a day in the form of a pill. The information is given that "in recent colds, if a dose be taken and after it a basin of gruel, it will generally afford much relief by producing perspiration, it is a valuable medicine in eruptive diseases as measles, small-pox, fever, &c., but in all cases for which it is required, the bowels should first be attended to."

Among "select preparations" described in the catalogue is "kreosote" described as having been recently discovered by M. Reichenbach and to speedily arrest caries of the teeth. It was, however, "highly important that the substance should be employed in a state of the utmost purity, and entirely free from certain deleterious principles naturally mixed with it in the compounds from which it is obtained; and for this purpose that their friends and the public may be protected, Ferris, Brown & Score have attached their seal to every bottle sold by them as a guarantee for its purity."

In its description of the "true Seidlitz powders" the catalogue mentions that "the fixed air" it contains renders it as

refreshing as soda water and more efficacious.

Appropriate to the port of Bristol is the description of the use of concentrated solution of chloride of lime (sold at 1s. 6d. a quart) "to purify the air between decks of ships, and destroy the unpleasant smell arising from bilge water, sugar ships, &c." The method of use recommended is to dilute one part of the solution with forty parts of water, sprinkle well between decks during the day, and hang up buckets containing the liquid at night.

The book was printed by H. Silverlock, 3 Wardrobe Terrace, Doctors' Commons, London. Its appearance is handsome with blue semi-stiff covers, gilt edging and a gilded royal coat-of-arms the sole occupant of the front cover.

Partnership Changes

It was about 1840 that the partnerships kept changing and a Mr. Copeland was taken in. He did not remain long and retired in 1847. A Mr. Lamotte-of Huguenot extraction and a first-class pharmacist was another partner who had only a short sojourn with the firm. The following then became interested in the firm:—Messrs. Charles Townsend, Boorne and John Boucher. And the business carried on under the name Ferris, Boorne, Townsend & Boucher until a limited liability company was formed in 1904.

The sons of Messrs. Charles Townsend and John Boucher entered the firm about 1890 and carried it on very successfully. About the year 1900, plant was installed for the manufacture of tablets; parenteral injection was coming into vogue and the firm started the manufacture of sterile solutions. Advance in that department was slow until after the 1914-18 war when the parenteral route of administration

became increasingly popular.

In 1928 the son of Mr. C. E. Boucher entered the business after having qualified as a pharmacist, and in 1937 Mr. T. Parr, grandson of Mr. H. H. Townsend, became apprenticed to the company. Unfortunately he lost his life in the 1939-45 war while serving in the Royal Air Force.

When the Union Street premises were burned out in 1940 it was fortunate that other premises, originally acquired for purposes of expansion, were available and the day after the fire those were immediately modified for the requirements of the company. On December 2, 1940, another blow was endured when an oil bomb hit the ether store and completely gutted the rear portion of the premises in Leek Lane, St. Paul's.

The directors immediately set about re-establishing the company, and within a month were making and delivering drugs and galenicals, though the output was small. Machinery was obtained, and gradually the output increased to more than pre-war level. The business was carried on in four large warehouses close together in the city as follows:

Redcross Street: Dispatch department.

Leek Lane: Heavy manufacturing.

Portland Square: First aid and chemists' warehouse. Ministry of Food orange juice was also processed and bottled there.

York Street: Storage.

St. Stephen's Street: Surgical instrument showroom, stock and retail shop.

Plans are now well ahead for the concentration of the company's activities in Portland Square. Additional buildings there are about to be erected. The company will, however, retain premises in Redcross Street, where the surgical dressings side of the business will be housed. The surgical instrument and appliance side will be accommodated at 19 Portland Square.

ECHOES OF THE PAST

A MEDICAL ANECDOTE

From the County Magazine, November 1789

SWIFT'S "Advice to Servants" has produced several imita-SWIFT'S "Advice to Servants" has produced several imitators. One of the most witty of the late productions of that nature is "A Dose for the Doctors," a pamphlet which I happened to cast my eye into as it lay in my bookseller's shop, and from which I send you the following Medical Anecdote, which is there told by way of cautioning Surgeons (in particular) against too magisterially deciding on a case

before they are fully apprised of it.

"An honest hearty Miller, in a small parish in the county of H—, having, on the market day, made some lucky purchases, and congratulating himself upon his good fortune with a few friends over the bottle, got himself insensibly intoxicated; but obstinately persisting in his determination (and ability) to ride home, he was suffered to depart, and was found afterwards upon the road by one of his own servants almost lifeless; he was conveyed to his habitation, and one of the *most eminent Surgeons* from a certain large and populous town was called in, who finding the trunk nearly inanimate, proceeded to venesection, then to an accurate examination of the body, in which he presently discovered "a fracture of the tibia, and two of the ribs; he had every reason to apprehend (from present symptoms) a concussion of the brain; but situated as things were, he should now administer proper palliatives, and pursue the necessary steps upon his arrival in the morning." He then left the Patient, after strict injunctions, that he should not be suffered to move from the position he had placed him in, till his return. At the hour before appointed, the Doctor returned, and not finding the wife below stairs, explored the sick man's chamber, when strange to relate! (stranger to believe!) the bird was flown, and the bed made. Recovering in some degree from his surprise, and feeling very forcibly the aukwardness of his situation, he descended to the kitchen, and there finding the wife, he eagerly enquired, "How, or which way his patient had been conveyed, and where to?" When the poor woman very simply and civilly replied that "her husband was gone into the and civily replied that the had repeatedly urged the Doctor's orders of his not getting out of bed; but he was a very obstinate man, and said he'd be d—'d if he'd ever lay in bed with a broken leg for any Doctor in England, so long as he could walk upon it.

How the Surgeon looked on this denouement, is better conceived than expressed. Indeed it gave such a shock to his credit in the village, as was not retrieved till the obstinate

Miller was dead and buried.

Perhaps I may send you some more diverting extracts from this son of *Momus*, which may not prove disagreeable to your readers.—Yours, &c., SCRAP.

NEW GERMAN PROPRIETARIES

Information from German pharmaceutical periodicals about recently introduced proprietaries:—

HYPHIBION.—Extract of the entire pituitary gland. Chemisch-Pharmazeut, Fabrik, Adolf Klinge G.m.b.H., Munieh, 23 (Arzneimittel-Forschung, November 1954).

DIAZIL-PENICILLIN. — Diazil (2-sulpha-4:6-dimethylpyrimidin) 0-5 gm., and 100,000 i.u. procaine-penicillin G. Cilag, G.m.b.H. (Arzneimittel-Foschums, November 1954)

procaine-penicillin G, Cilag, G.m.b.H. (Arzneimittel-Forschung, November 1954).

SUCSAN.—Each "bean" contains 0-15 gm, of the active principles of liquorite root, Indication: Peptic ulcer and gastritis, Minden G.m.b.H., Minden, Westphalia (Arzneimittel-Forschung, November 1954).

GASTRICHOLAN. — Flor. Chamom., rhiz. calami., fol. menth. pip., artemis, absinth.. Thym. vulg., Foenic. vulg. Indications, All forms of gastritis and chronic dyspepsia. Südmedica G.m.b.H., Munich 25 (Arzneimittel-Forschung, November 1954).

DAGO-D.—Freely absorbable calcium salts 33 per cent, (citrate, phosphate, carbonate), citric acid, sugar 33-4 per cent., oil of lemon, saccharin 0-188 per cent., vitamin C 1 per cent., vitamin D₃ 6,000 i.u. in each pack. Indications: When calcium-phosphorus therapy is indicated. Pack: About 75 gm. Deutsche Arzneimittel-Gesellschaft, Berlin (West) (Pharmazeutische Zeitung, December 2, 1954).

CONTRASTHMAN.—Atropin 0.0003 gm., ephedrin, hyd. 0.002 gm., phenobarbiton, 0.02 gm., caffein. 0.05 gm., camph, monobrom. 0.003 gm., calc, lact, 0.3 gm., Indications: Asthma of whatever origin, also manifestations accompanying or following asthmatic conditions, asthmatoid conditions, emphysema, bronchitis, broncho-spasm. Packs: ten and twenty tablets. Helopham K.G. Berlin (West) (Pharmazeutische Zeitung, December 2, 1954).

PERMEASE. — Hyaluronidase in ampoule containing 25 Cilag viscosity units, and one ampoule of normal saline, (One Cilag unit is that amount of enzyme which in 10 minutes at 50° C, in 0·1 c.c. of solution reduces by half the viscosity of a solution of 5 times the amount of hyaluronic acid. Use: To accelerate absorption of subcutaneous and intramuscular injections. Cilag G.m.b.H, (Arzneimittel-Forschung, November 1954).

AZOVAG. — 2:4-diamino-azo-benzol dihydroiodide 0-5 per cent., 2:4-diamino-azo-benzol monorhodanide 0-5 per cent., lactie acid 2-5 per cent., boric acid 1-5 per cent., urca 10 per eent., in a glycerin-gelatin base, Indications: Leucorrheca, endometritis, vulvitis, cervical catarrh, and inflammation of the ovaries and oviduets. Packs: Six, fifty and 100 "globuli" vaginalis. Dr. med, Hubold & Bartsch, Hamburg, 1 (Arzneimittel-Forschung, December 1954).

CORNECAIN. — p-propylamino-benzoic acid-γ-dimethylamino-β-oxypropylester hydrochloride. Uses: Superficial anæsthesia of cornea and conjunctiva, 1 per cent, solution: for removal of foreign bodies and tonometry, 3 per cent. solution: for removal of more deeply seated foreign bodies and surgical intervention. Packs: Substance: 5 and 50 gm, Solution: Bottles of 25 e.e. one per cent, or 3 per cent. Farbwerke Hœehst, A.G. Frankfurt (M) Höchst (Pharmazeutische Zeituns, December 2, 1954).

WILLS

MR. A. ASHWORTH, M.P.S., 25 Half Edge Lane, Eccles, Lancs, left £2,591 (£2,514 net). MR. A. CROMACK, M.P.S., 47 Byron Road,

North Wendley, Middlesex, left £713 (£661 net).

MR, G. E. DUNN, M.P.S., 4 Sheep Street, Highworth, Swindon, Wilts, left £3,371 (£3,143 net).

MR, T, M, FORD, M.P.S., 51 Acton House, Horn Lane, Acton, W. (for many years on the staff of S, Maw, Son & Sons, Ltd.), left £1,035 (£992 net).

MR. J. HALE, M.P.S.N.I., Main Street, Saintfield, co. Down. left £9,835.

GUIDE TO NEW MEDICAMENTS

Information about proprietary products supplied principally on prescription. Reprints on perforated gummed paper for affixing to index cards are obtainable.

CRYSTAPEN ORAL LIQUID

Manufacturer: Glaxo Laboratories, Ltd., Greenford, Middlesex.

DESCRIPTION: A palatable liquid containing 200,000 units potassium penicillin in each fluid drachm.

INDICATIONS: All penicillin-sensitive infections except those that are overwhelming or very resistant, when injections are needed. Amenable conditions include soft tissue infections such as boils, bacterial pneumonia, tonsilitis, otitis media and Vincent's angina. Also prophylactically in surgery and maintainance treatment of rheumatic fever.

Dosage: Adults and older children, 2 teaspoonfuls (400,000 units) every six hours. Children aged one to five years, 1 teaspoonful, and infants up to one year, $\frac{1}{2}$ teaspoonful, both at six-hourly intervals.

How Supplied: In bottle of 2 fl. oz. with measuring spoon.

FIRST ISSUED: December 1954.

NORACIN

MANUFACTURER: Ward, Blenkinsop & Co., Ltd., 6 Henrietta Place, London, W.1. DESCRIPTION: Parenteral coagulant consisting of a sterile aqueous solution

containing sodium oxalate and sodium malonate.

INDICATIONS: (a) Hæmorrhage in surgery; (b) post-partum hæmorrhage; (c) hæmophilia; (d) profuse hæmorrhage.

CONTRA-INDICATIONS: While no reports of untoward reactions to the use of Noracin have been published, it is advisable to observe the utmost care if it is administered to patients with vascular disease and allied conditions where there is a predisposition to thrombus formation.

Dosage: For the indications given above:—(a) 2 c.c. intramuscularly ½-1 hour pre-operatively, followed by 2 c.c. intravenously according to the duration of the operation. (b) 3 c.c. intravenously followed by 2 c.c. intramuscularly during labour. (c) 3 c.c. intravenously followed immediately by 2 c.c. intramuscularly each day for one week. (d) 3 c.c. intravenously followed immediately by 2 c.c. intramuscularly, repeating the intramuscular dose by two-hourly intervals if hæmorrhage persists.

How Supplied: In 10-c.c. rubber-capped bottle.

FIRST ISSUED: November 1954.

ELORINE CHLORIDE*

MANUFACTURER: Eli Lilly & Co., Ltd., Basingstoke, Hants.

DESCRIPTION: Brand of tricyclamol chloride, a quaternary ammonium parasympathetic blocking agent for oral administration.

FORMULA: 1-cyclohexyl-1-phenyl-3-pyrrolidino-1 propanol methchloride.

INDICATIONS: Spasm of the gastro-intestinal tract, in such conditions as peptic ulcer, pylorospasm, gastritis, spastic colon.

Dosage: 25-100 mgm. three or four times daily.

How Supplied: In bottles of twenty-five, 100 and 1,000 capsules each containing 25 mgm. (No. 344) and 50 mgm. (No. 345).

First Issued: September 1954.

REFERENCE: Shutkin, Amer. J. Gastroenterology, 1954. 21. 386.

*Cross reference for card index.

TRICYCLAMOL CHLORIDE: See Elorine chloride.

CO-ELORINE

MANUFACTURER: Eli Lilly & Co., Ltd., Basingstoke, Hants.

FORMULA: Capsules containing 25 mgm. Elorine chloride (q.v.) and 8 mgm. amylobarbitone.

INDICATIONS: Spastic intestinal conditions that are aggravated by nervous or emotional tension.

Dosage: 1-2 capsules three or four times daily.

How Supplied: In bottles of twenty-five, 100 and 1,000 (No. 356).

FIRST ISSUED: September 1954.

ADRENOXYL*

MANUFACTURER: Pharmaceutical Division, Horlicks, Ltd., Slough, Bucks.

DESCRIPTION: Adrenochrome monosemicarbazone dihydrate, a derivative of adrenaline, increases the contractility of capillaries, and reduces their permeability on systemic administration.

FORMULA: Each 2-mil ampoule contains 0.75 mgm. of the drug, each tablet, 2.5 mgm.

INDICATIONS: Prevention and control of capillary bleeding, particularly in ear, nose and throat surgery, but also in thoracic and abdominal NH, surgery. Conditions involving capillary fragility.

Dosage: Prophylactic: Pre-operative: Adults 2 to 4 tablets, children 1 tablet, the evening Adrenochrome monosemicarbazone before operation and adults 2 to 4 mil (0.75-1.5 mgm.), children 2 mils, intramuscularly

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half to one hour before operation. Post-operative: Adults, 2 tablets, children, 1 tablet three times a day. THERAPEUTIC: Adults 2-8 mils, children 2 mils intramuscularly per day; adults 1 to 2 tablets three times a day; children 1 tablet twice daily.

How Supplied: In containers of twenty-five and 500 tablets, and boxes of six and fifty ampoules.

FIRST ISSUED: October 1954.

Notes: Adrenoxyl is claimed not to produce tachycardia or raised blood pressure, and has no coagulating action, and to be non-toxic.

REFERENCES: Böhringer, J. Suisse de Med., 1952. 17. 484. Bacq and Derouaux, Sem. Hôp., 1950. 26. 3347. Stangl, Praxis, 1951. 40. 713.

*Cross reference for card index.

ADRENOCHROME MONOSEMICARBAZONE DIHYDRATE: See Adrenoxyl.

DICYCLOMINE HYDROCHLORIDE (2)†

BRAND NAME: MERBENTYL.*

DISTRIBUTOR: Riker Laboratorics, Ltd., Morley Street, Loughborough, Leics, for the Wm. S. Merrell Co., London.

DESCRIPTION: Anticholinergic and smooth muscle relaxant.

FORMULA: 10-mgm. tablets and syrup, of which each large teaspoonful (5 c.c.) contains 10 mgm, diethylaminoethyl-1-cyclohexyl-cyclohexanecarboxylate hydrochloride.

INDICATIONS: Spasm of the gastro-intestinal tract, nervous dyspepsia, "irritable" colon and peptic ulcer. (See also Kolantyl (C. & D., January 8, p. 45.))

Dosage: Two tablets or two teaspoonfuls three times a day, before or after meals.

How Supplied: In containers of fifty and 250 tablets, and bottles of 4 and 20 fl. oz.

FIRST ISSUED: Tablets, April 1954; syrup, November 1954.

Notes: Tablets and syrup with an added 15 mgm. phenobarbitone in each tablet, or in 5 c.c. of syrup, are also available.

REFERENCES: Chamberlin, Gastroenterology, 1951. 17. 224. Pakula, Postgrad. Med., 1952. 2. 123. Steves, Ohio St. med. J., 1952. 48. No. 7.

Information on dicyclomine hydrochloride has been given previously (see C. & D., September 5, 1953, p. 229).

*Cross reference for card index:—

MERBENTYL: see dicyclomine hydrochloride (2).

TYZANOL

MANUFACTURER: Pfizer, Ltd., Folkestone, Kent.

DESCRIPTION: A 0.1 per cent. solution of tetrahydrozoline hydrochloride (2-(1.2.3.4.-tetrahydro-1-naphthyl) imidazoline hydrochloride) in normal saline. NH-CH,

Tetrahydrozoline

INDICATIONS: Inflammation and congestive obstruction of nasal mucosa and sinuses.

Dosage: 2 to 4 drops to be instilled into each nostril as needed, not more often than every three hours.

How Supplied: In combination package of 10-c.c. bottle and dropper.

FIRST ISSUED: January 1955.

WORLD TRADE

Italian Mercury Exports. — Italy exported 2,022 tons of mercury in the first eleven months of 1954 compared with 1,706 tons in the corresponding period of 1953.

Spanish Imports of Glycerin.—Imports of glycerin into Spain from sources other than Holland, from which country imports have recently been arriving, are likely to be allowed by the Ministry of Commerce.

Antibiotic Plant For Philippines. -A new plant for producing Terramycin and Tetracyn is being prepared by Chas. Pfizer & Co., Inc., on the out-skirts of Manila in the Philippines, and is due to start operating in the early

U.S. Chemical Plant for Holland.-The Dow Chemical Co. of the United States is to set up a wholly-owned subsidiary company in Rotterdam which will import, manufacture and distribute a basic line of chemicals for industry throughout the world.

Indian Glycerin Exports.—India is turers during the period January—June 1955. Exports will be subject to a maximum of five tons per day. Licences will be valid for a period of fifteen days only.

Japanese Import Licences. -Japanese authorities have invited importers in Japan to apply for import licences for titanium dioxide from any area; and for vinyl chloride stabilisers, photo-engraving film and plates, microfilm and synthetic perfumes from the sterling and dollar areas.

Italy-Albania Trade Agreement. -A trade and payments agreement has been signed between Italy and Albania under which Albania will export (among other goods) medicinal plants to Italy to the value of \$ (U.S.) 40,000 in a year. Italy will export to Albania chemical and pharmaceutical products, including antibiotics valued at \$80,000.

Swiss Chemical Exports.—Swiss exports of chemical and pharmaceutical products increased sharply during 1954. Official statistics show that exports of pharmaceuticals are a record to the control of the pharmaceuticals rose to a value of 382 million francs from 321 millions in 1953; of perfumers' products to 40 millions from 32 millions; and of industrial chemicals to 128 millions from 100 millions.

Japanese Pharmaceutical Exports.— Mr. Shinbei Konishi (executive director, Takeda Pharmaceutical Industries, Osaka) stated in New York recently that Japanese exports of drugs this year will equal or surpass imports for the first time since the 1939-45 world war. He said that the drug trade balance would be reached mainly because of intensified domestic production of antibiotics. "We are not increasing our foreign markets in proportion to our increase in pharmaceu-tical production," he said, "and ex-pansion of Japan's foreign drug markets is difficult in the present circum-stances." The main Japanese drug markets at present, he said, were in southeast Asia, with some shipments going to Latin America.

MEDICAL ABSTRACTS

PENTOLINIUM TARTRATE

THE ganglion-blocking drug, pentolinium tartrate, is reported on by Enderby (Lancet, 1954. 11. 1097) who (using the proprietary brand Ansolysen) studied its ability to achieve a steady, controlled blood pressure during surgical operations. Pentolinium tartrate (pentamethylene-1:5-bis (1-methylpyrrolidinium) hydrogen tartrate) is stable in aqueous solution and can be autoclaved without loss of activity. The author attributes to it the advantages of a relatively slow initial fall of blood pressure; and the fact that the hypotensive effects of posture and controlled or assisted respirations appear greater with it than with other ganglionic-blocking agents.

X-RAY DAMAGE AND CORTISONE

The protective action of cortisone against large doses of x-rays has been investigated by Houghton and others (British Medical Journal, 1954. 2, 1313). The backs of thirty-eight guinea pigs were clipped, and nineteen of the animals given 10 mgm. of cortisone acetate subcutaneously, Twenty-four hours later all were subjected to a known dosage of x-rays. That dose was repeated after an interval of forty-eight hours. Seventy-one days later all the control animals had severe ulcers, but none of the animals that had received cortisone daily showed ulcers. Two of the latter group exhibited small ulcers earlier, but those quickly healed. It is not known whether cortisone protects malignant tissue also. The drug may also inhibit damage due to atomic radiation.

HANDS AS FACTOR IN CROSS INFECTION

HITHERTO measures to reduce cross-infection in hospital wards have been aimed mainly at dealing with droplet infection, dust, ward utensils, linen and contaminated dressings. Murray and Calman (B.M.J., 1955. 1. 81) were convinced that pyogenic staphylococci carried in the noses of nurses and transmitted by way of the nurses' or doctors' hands are a substantial contributory factor, and carried out tests with hand creams containing antiseptics. By two methods of application, Hibitane cream, containing 1:6-di-4'-chlorophenyldiguanidohexane 10,040, was found capable of greatly reducing the bacterial count of the skin. Its use led to a marked decrease in the number of clinical cases of staphylococcal infection at Queen Charlotte's maternity hospital, London. During the trial no groups of infection were seen in any ward or nursery.

APPROVAL FOR NP13

NP13 (β,β) -methylethyl glutarimide) is concluded by Harris (Lancet, 1955. 1. 181) after trials in seventy-three cases to be "a barbiturate antagonist of real clinical worth." The patients were in two groups. In the first (fifty-seven psychiatric cases), the patients were prepared for electrical shock therapy with thiopentone 0.5 gm., atropine gr. 1/50, and d-tubocurarine, 30 mgm. The shock having been given, and the attenuated chronic convulsions having subsided, the subject was decurarised with neostigmine and then given 50 mgm. of NP13. In all cases the thiopentone anæsthesia was rapidly terminated without observed sideeffects. The observations were supported in two other groups of patients, one group comprising ten surgical patients. The author comments that, in treating barbiturate coma, not to use NP13 is to risk the broncho-pneumonia often fatal in such cases. Use of the compound after surgical anæsthesia is more limited (because the patient may be under the influence of central depressants other than barbiturates).

GAMMA GLOBULIN AND MEASLES

CONFIRMATORY evidence of the superiority of gamma globulin over adult serum as a measles prophylactic is provided by the work of McDonald and Cockburn (*British Medical Journal*, 1954. 2. 1076). During the years 1949-53, gamma globulin was given to 2,760 children under five years of age, unconcentrated adult serum to 375, and concentrated adult serum to 771. All of the children belonged to families in which a member was suffering from measles. It was estimated that of susceptible children 9 per cent. of those under six months old would have contracted

measles. For those aged six months to one year, the figure would have been about 70 per cent.; one to three years, 88 per cent.; and three to five years, 89 per cent. The actual percentages infected were 3 per cent., 34 per cent., 55 per cent. and 50 per cent. at optimum dosage levels. Adult serum proved of little value except for children aged six months to one year. Where measles was not prevented, it was modified. The authors suggest that the globulin should be restricted to children who are specially in need of it, as supplies may be inadequate to meet all requests.

HYPERSENSITIVITY TO PHENOLPHTHALEIN

KENDALL (British Medical Journal, 1954. 2, 1461) reports a case of fatal encephalomyelitis following ingestion of phenolphthalein. A female child aged two and a half years had been given a number of chocolate laxative tablets by an older child. The amount of phenolphthalein ingested was probably between 10 and 20 gr. (0·65—1·3 gm.). A few hours later the child became fretful and the following morning passed several loose stools. Shortly afterwards it was noticed that the right side of the face and the right arm were twitching and at that stage she was admitted to hospital. In spite of sedation with phenobarbitone and amylobarbitone the twitching movements continued intermittently, at times becoming generalised. She passed from drowsiness to stupor and after an illness lasting eight days died in coma. The author states that the histological appearances of the brain at a post-mortem examination were closely similar to those brain lesions seen when a hypersensitive state has been induced in animals by the injection of brain tissue. He concludes that in the present case the encephalitic reaction may have been due to a hypersensitivity reaction to phenolphthalein.

SKIN REACTIONS TO ADHESIVE TAPE

FIVE types of reaction which may develop beneath adhesive plasters, and their causes, are described by Russell and Thorne (Lancet, 1955. I. 67). The reactions are listed as trauma of removal; irritation by the adhesive; retention of sweat and serous discharges on the skin, leading to maceration of the horny layer, disturbance of the bacterial flora by selective antibacterial action of some constituent of the spread; and eczematous sensitisation to some sub-stance in the adhesive spread or in the rubber. Trauma of removal is stated to develop particularly at hairy sites and if a plaster solvent has not been used to assist removal. Ether is recommended as being an entirely satisfactory solvent, provided the danger of its inflammability is appreciated. Tests to discover if there is any quantitative relationship between the adhesiveness of a plaster and its irritating effects on the skin were carried out by applying plaster discs of three known degrees of adhesiveness to the backs of thirty-one students. The number of papules beneath each disc was counted after it had been in position for a week. It was found that papulopustular reactions of irritation were more numerous as the adhesiveness of the plaster increased. Patch-tests were carried out on thirty-five students using porous and non-porous adhesive plasters, with and without the incorporation of 0.6 per cent. zinc propionate and 0.6 per cent. zinc caprylate. The incidence of rashes was slightly less with porous plasters, especially those with fatty acid added. It was found that the bacterial flora might be disturbed when manufacturers incorporated an antiseptic in the plaster. In trying to find the commoner causes of contact-eczematous reactions from adhesive plaster, the individual constituents, dissolved in arachis oil, were applied on small squares of gauze held in place by an adhesive of low irritative and sensitisation potential to people known to be sensitive to the plaster mass. Negative results were obtained in nine out of ten cases, the exception being a positive reaction to colophony. Further trials were then made with the constituents dissolved in benzene, positive results being obtained in most cases. It was concluded that reactions of eczematous sensitisation are most commonly due to colophony, rubber proteins, antiseptics or complexes in the plaster mass, and that those reactions are rendered less frequent by using deproteinised rubber, abandoning the use of chloroxylenol and substituting for colophony some rubber compound of lower sensitising potential.

Examiners' Reports

"RAW DEAL" FOR SOME STUDENTS

THE annual reports of the boards of examiners for England and Wales of examiners for England and wates of the Pharmaceutical Society comment sharply on the training given in some institutions to Intermediate students in botany. The examinations, they say, have shown up a large discrepancy between candidates from different teaching institutions. They are disturbed about it. They feel that some students are getting a raw deal from institutions which, in all good faith, students enter for training. In zoology, the average performance in 1954 was few years. The inability of many candidates to carry out and record obvious and straightforward dissections "must reflect on the teaching of that part of the subject." In chemis-try, "lack of essential details that the training of students by practical demonstration is less thorough than it used to be." The standard reached in qualitative analysis is generally less good than it was some years ago. In candidates' physics papers the examiners found much illegible writing and some bad spelling. In the practical examinations, many candidates were unable to handle a spherometer.

Classification Neglected

At Qualifying examination level, the examiners report that the improvement recorded last year in pharmacognosy has been maintained. They were disappointed that few candidates attempted the question on the classification of crude drugs. Some answers "gave the impression that the attempt was made only in an extremity of ignorance of the matters raised in the other questions." The subject, though speci-fically referred to in the syllabus, seems to be generally neglected. Knowledge of the storage conditions ap-propriate to certain unstable drugs sometimes proved vague, and there was little appreciation of the precise effects of incorrect storage. In the theory of pharmaceutics the general standard was poor, the majority of successful candidates passing with few marks to spare. A common failing was the description of methods when an explana-tion of underlying principles was required. In a few papers illegible hand-writing made candidates' answers difficult to interpret. A few candidates failed to obtain a required minimum mark in posology, though the remainder of their work reached a pass standard. Doses given by some candidates for potent drugs were fantastic and frightening. A question on wool alco-hols, wool fat and cetostearyl alcohol was poorly answered, the last named as an oil-in-water emulgent. Few candidates were aware of the methods used or the principles involved in the drying of crystalline salts. There was confusion in the definitions of cationic and anionic surface-active agents. Roxenol and lysol were frequently referred to as emulsions. A question on the stability of penicillin and strepto-mycin was also poorly answered. In

the practical examinations arithmetical mistakes were common. So was untidiness on the bench. Exercises involving the determination of bacteriostatic values were often poorly performed. The elementary precaution of agitating test tubes to ensure homogeneity of the contents was often omit-ted. "Candidates should know," stated the examiners, "that when a question states 'Dispense, etc.' the term means that the preparation should be correctly packed, labelled and correctly wrapped."

More Precision

In theoretical physiology and pharmacology the standard reached was on the whole satisfactory. There was encouraging evidence of more precision in the presentation of facts, though the caution against including irrelevant matter was frequently unheeded. The new system of combined practical and oral examination had afforded a better opportunity of assessing the candidate's knowledge. It had had the merit of reducing the chances of failure occasioned by impaired manual dexterity in an unfamiliar environment, or by anxiety. There was need for closer co-ordination of the different subjects of the Qualifying examination. The attention of teachers might be directed towards encouraging the student to re-late what he learned of the pharmaceutical properties of a drug with his knowledge of its pharmacognostical and pharmacological characteristics. In theoretical pharmaceutical chemistry too many papers exceeded the pass standard by only a small margin. The more advanced questions were often better answered than those involving simple chemical reactions, and there was a lack of familiarity with the properties of common substances. Magnesium trisilicate and aspirin were often said to be soluble in water, and that suggested the need for more thorough revision of the more elementary part of the course. There was also apparently a lack of practical experience of the behaviour of common substances. Questions on physical chemistry again showed an improvement over previous years; those on B.P. methods of assay or identity tests were answered badly or not at all. The wider choice of questions had shown that a question not of the conventional type, or one that required intelligence rather than memory, would be ignored. In the practical examination the standard had generally been good, but many candidates seemed unable to organise their work so as to complete it in the time allowed. Gravimetric determinations were nearly always badly done. A few candidates made no attempt to work out the results of their quantitative analyses.

The proportion of candidates passing in forensic pharmacy continued satisfactory, but there were few outstanding candidates and most of the successful ones passed with little margin to spare. Candidates who presented themselves for examination before undergoing practical training obviously had great difficulty with the subject.

Scotland

THE examiners in Scotland reported that in the Intermediate examination in botany the general improvement in standard in recent years had again oc-curred. In the theory examinations questions were usually approached with thought and understanding, but there was still need for greater care in the interpretation of questions. Failure to obtain marks was sometimes due to irrelevancy. In the practical examina-tions the drawing, labelling and interpretation of prepared sections could be improved. Where a candidate's practical work was good, his theoretical knowledge was usually equally so. Many answers in the zoology theory paper, and numbers of practical books, showed that the syllabus was being interpreted in a realistic and careful way by the biology departments of most schools and colleges. The percentage of passes in chemistry was higher than in previous years. Questions answered most satisfactorily were those relating to inorganic and preparative chemistry. The application of fundamental principles to numerical examples was disappointing, much unnecessary calculation being often given. On the practical side, volumetric analysis continued to be reasonably well done and reported. Acid-alkali titrations were subject to relatively greater inaccuracy, and qualitative analysis was less satisfactory, many candidates leaving themselves insufficient time to complete the analysis and report their conclusions adequately. The performance of most candidates in physics (theory and practice) could be much improved. Questions on mechanics and properties of matter were with few exceptions badly answered or avoided, candidates failing to present answers to the required number of questions. In the practical examination, most candidates tended to obtain a result as hastily as possible, without regard to accuracy. Time that would be better spent in careful measurement and in repeating observations was occupied in writing unnecessarily detailed reports. The number of errors in simple arithmetic was ber of errors in simple arithmetic was again lamentable.

At the Qualifying examination level, the standard of performance in pharmacognosy did not differ markedly from that of previous years. An unusual fea-ture of the July examination was that many candidates obtained good marks in one question (not the same question throughout) and then scraped from the remainder of the paper only sufficient marks to obtain a pass. The practical examination showed a slight improve-ment in questions dealing with the identification of commercial samples of drugs and in the description of the macroscopical characters of specimens, but exercises dealing with the micro-scopical work were on the whole badly done. Practical books showed an improvement over previous years.

In theoretical pharmaceutics the

answers were generally mediocre, the main fault being an absence of suffi-cient knowledge to give a complete answer to a question. Knowledge of storage conditions was poor.

about 1 per cent. of the candidates attempted the German translation. The French translation usually gave little trouble, but in the summer examination many poor translations were re-ceived. Lack of experience and lack of ability to organise their work was too often shown by candidates in the practical examination. In practical pharmaceutics II, a welcome improvement in aseptic technique was evident, and many candidates obtained high marks. Students must get more practice in sealing ampoules.

In theoretical physiology and pharmacology there were a few quite outstanding papers. Histological description was weak, but general knowledge of pharmacology was much higher than in the previous year. Candidates in the practical examination reacted well to the new type of test that gave the examiners scope in assessing candidates' knowledge. Notebooks were generally of a high standard. The examiners were unanimous in approving the style of practical-oral test employed in July 1954.

In theoretical pharmaceutical chemistry, the general standard reached was satisfactory. The practical examination produced many examples of untidy practice and muddled thinking.

In forensic pharmacy a marked improvement had been shown in the general standard and several papers gained high marks. The examiners remind candidates that details of entries in the poisons and Dangerous Drugs registers must be given: it is not sufficient to state "the usual entries are made."

SIX MONTHS IN THE UNITED STATES

Some impressions of American education given at Scottish evening meeting

ECONOMICS, display, salesmanship, advertising, business law, first-aid, advertising, statistics, and public speaking were all included in the American system of pharmaceutical education, said Dr. G. B. West (lecturer in materia medica at Queen's College, Dundee) at an evening meeting of the Scottish Department of the Pharmaceutical Society held in Edinburgh on January 19. Mr. S. Hughan (chairman of the Executive of the Scottish Department) presided. Mr. Hughan, introducing the lecturer, said that Dr. West was trained in the School of Pharmacy, Bloomsbury Square, London, Bloomsbury Square, London, W.C.1, and was afterwards on the staff there. He had been for some time in the University of Edinburgh under Professor Gaddum, and had held his present position at Queen's College since 1953. He was recently awarded the degree of Doctor of Science of London University.

DR. WEST said that in 1954 he received a Fulbright travel grant covering transport between Dundee and Boston, Massachussets. He was appointed to the Boston University School of Medicine for six months, and in that way was able to gain a deeper understanding of America and its people.

Boston was a fine city having two and a half million inhabitants. It was rich in historical associations, and was now the financial, commercial and in-dustrial metropolis of New England.

The most widely used means of transport in America was the privately owned automobile and there was one car for every four persons in the States. There was United much congestion in downtown sections of the big cities. In consequence, the larger stores had now built branch shops six to ten miles outside the cities so that they could have huge car-parks. Some of the shops were on the "drive-in" plan, "where you drive your car into the shop and purchase your goods from the driver's seat."

Regarding radio and television, Dr. West was not in favour of sponsored with commercial advertising. Most of the programmes were easy to follow but interruptions by the advertisers could become extremely irritating. The time when those advertise-ments appeared was the signal for hosts and guests alike to talk. Much of the advertising was overdone and frequently goods were touched up be-fore being shown. For example, corn

flakes might be covered with lacquer to make them more sparkling, or shaving cream shown to advertise whipped cream.

On the subject of education, Dr. West said the American system of higher education differed markedly from systems of other countries. Each State had its own public institutions, and other colleges and universities were controlled by municipalties, were controlled by municipalties, private organisations, or religious denominations. Policies and methods of education were not uniform, though generally all were based on class discussion as well as lectures. Activities outside the class-room played a very important part on every campus. The institutions aimed not only to impart knowledge but also to train students to live and work together. The college football games were outstanding events.

Most institutions were organised on the semester plan, i.e. they had two terms a year, each of about eighteen Most courses of study worked in credit hours; a credit hour meant one hour in class, or its equivalent in laboratory (generally two to three hours) each week for one semester. A normal load for a student was sixteen credit hours a semester. Since graduate courses were more advanced and required more time for preparation, a graduate student seldom carried as many hours as an undergraduate. The quality of the work done by the student was recorded on his official college transcript in the form of a mark or grade. Undergraduate students must maintain an average C grade (70 per cent., fair work) in all their work to be eligible for a degree. For graduate students, it must be an average B grade. At the end of the senior or fourth year, the student received the B.A. or B.S. degree provided he had completed the course with 128 credit hours and with upwards of grade C. The M.A. or M.S. degree could be completed after one or two years of work beyond the bachelor's degree. That required a short thesis and oral examination, and an average B grade. The Doctor of Philosophy course occupied two years beyond the master's degree and was one of the essential requirements for University posts. But salaries in skilled-trade jobs such as bricklayers, plasterers, carpenters and painters generally exceeded or equalled those of University teachers.

The American medical student

was usually a year or so older than his

British counterpart and that perhaps made him more receptive. He benefited more from the courses, particularly those in physiology and pharmacology. Vivisection laws did not trouble him so that he could perform many experiments which could only be carried out in Britain by a demonstrator. Every American student had to give a talk before the whole class on some topic he had to read up in the library. Their national examinations were now purely objective and even the teachers did not see the papers, either before or after the examination. Doctor's and hospital fees were heavy in America and patients were not usually allowed to leave hospital until all bills were paid. At a large hospital the authorities paid £5 to a blood donor for a pint of blood. Blood transfusions in hospital were thus very costly.

Dr. West went on to describe the Massachusets College of Pharmacy, housed, he said, in a most imposing and beautiful structure, next to Harvard Medical School. The essential requirement for admission to that college was four years of high school work, including a course in physics. Four years of undergraduate work led to the Bachelor of Science degree of that college, which allowed the student to practice in some States, although others required a separate State examination. Dr. West was impressed by the manner in which the student took down prescriptions dictated over the telephone and by the use of the type-writer for labelling medicines. Graduate work led to the M.S. or Ph.D. degrees, which were the requirements for teachers and research pharmaceutical in the workers sciences.

In the botanical museum of Harvard University was the Ware collection of Blaschka glass models of plants, the work of Leopold and Rudolph Blaschka. There were specimens illustrating 164 families of flowering plants, a selected group of crypto-grams showing their complicated lifehistories, a group of models exhibiting the relation of insects to the transference of pollen, and a group of rosacefruits infected with fungus

Dr. West's lecture was illustrated by lantern slides. A vote of thanks was proposed by Dr. J. M. Johnson (Department of Health for Scotland) and seconded by Mr. R. Moffat.











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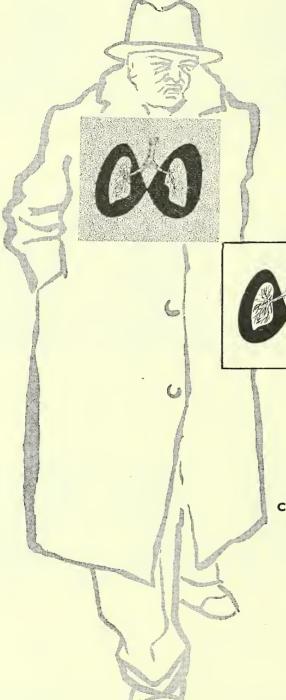






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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, FEBRUARY 2: The firmer tone in the CRUDE DRUGS market was maintained during the week, and price changes recorded were comparatively few. Except from resellers of Colombian IPECACUANHA for shipment, no other offers were made for that root. Aloes, Cape and Curação, were virtually unobtainable on the spot and there were no forward offers.

ARECA NUTS were 7s. 6d, a cwt. lower for shipment but the spot price has not yet been affected. The Pepper market was slightly higher than the previous week, the black Malabar variety being an exception. Kola nuts have become short on the spot and holders require about sixpence per lb. for them.

The higher rates for STEARATES, ex-

pected ever since stearine was increased a month ago, are now announced by the manufacturers and are given below. All grades ZINC OXIDE have been increased by £5 per ton. The increase on this occasion is applicable to the B.P. quality (the last increase only applied to the commercial grades). Adjustments have been made to the schedules for CITRATES but bulk rates are unchanged. ACETIC ANHYDRIDE was reduced by £7 per ton. There were a number of price movements in Was lower by 1s, 6d, per lb, but the Italian "Mitcham" type was higher. Also higher were Cedarwood, Dill, Sicilian Lemon and Pimento Berry. Lower were LAVENDER SPIKE and ANISE.

Pharmaceutical Chemicals

ACETIC ANHYDRIDE.—Reduced. Rates (per ton) delivered U.K., in returnable drums, range from £121 for 10 tons to £126 for single 90-gall. drum lots.

Ammonium chloride, B.P. — Makers quote 1-cwt, lots at 68s.

CITRATES.—Rates (per lb.) are as follows:—Potassium, 1-cwt. lots, 3s. 6\frac{1}{2}d.; 28-lb., 4s. 5d.; Sodium, 1-cwt., 2s. 11\frac{1}{2}d.; 28-lb., 3s. 8\frac{1}{2}d. (powder of both salts two-pence more). Iron and Ammonium, 1-cwt. lots, granulated, 3s. 10\frac{1}{2}d.; 28-lb., 4s. 10d. 4s. 10d.

HEXOBARBITONE. — B.P. in 1-cwt lots is 55s. per lb.

HOMATROPINE.—Current rates (per oz.) for 16-oz. lots are now: Alkaloid, 56s. 9d.; Hydrobromide, 39s. 3d.; Hydro-Chloride, 43s. 2d.; Methylbromide, 48s. 9d. 1-oz. rates are about 6d. per oz. higher in all cases. higher in all cases.

EXCHANGE RATES ON LONDON

At the opening on Wednesday

*Alexandria .	Piastres to £	971-971				
Amsterdam .	Florins to £	10.56-10.72				
Bombay		10,50 10,72				
	rupee	1/5 18-1/6 18				
Brussels	Francs to £	138.95-141.05				
Copenhagen	Kronor to £	19.191-19.481				
Dutch West	-1101101 10 2	15.151-15.462				
Indies	Florins to £	5.24-5.32				
•Hong Kong	Shillings to \$	$1/2\frac{27}{32} - 1/2\frac{31}{32}$				
•Karachi	Strings to w	1/232-1/232				
	rupee	2/127 2/115				
Lisbon		2/137-2/118				
•Montreal	Escudos to £	79.90-81.10				
New York		2.70-2.701				
Oslo		2.78-2.82				
Borio	Kronor to £	19.85-20.15				
Paris	Francs to £	972.6-987.3				
Stockholm		14.37 14.59				
Singapore		2/432-2/435				
Zurich	Francs to £	12.15 3-12.33 8				
•Free market rates; remainder Bank of England.						
Donk man incomed to 21						
January 27.						
,	January 27.					

Hyoscine hydrobromide.—1-oz. lots are 74s. 3d.; 4-oz., 74s. and 16-oz., 73s. 9d., per oz.

Hypophosphites. — Prices per lb. are unchanged as follows:-

SALT	7 lb.	28 lb,	1 cwt.
	s. d.	s. d.	s. d.
Ammonium	 12 10	12 5	12 0
Barium	 7 10	7 5	7 0
Calcium	 5 11	5 6	5 1
Iron	 12 1	11 8	11 3
MAONESIUM	 9 4	8 11	8 6
Manganese	 12 4	11 11	11 6
Potassium	 7 11	7 6	7 1
SODIUM	 6 7	6 2	5 9

LEAD ACETATE.—B.P. crystals are 180s. per cwt., and technical, 160s.

MAGNESIUM PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is 3s. 11d.

METOL. — In 1-cwt. lots the price is 24s. 6d. per lb.; 28-lb., 25s. 6d.; 14-lb., 27s.; 7-lb., 28s.

OLEIC ACID. - Price for B.P. is about 153s. per cwt.

153s. per cwt.

OPIATES.—Home trade rates for 4-oz. up to 7-oz. lots including container (non-returnable) are as follows:—Codeine.—alkaloid, hydrobromide, iodide, 58s. 6d. per oz. (2,063s. per kilo); hydrochloride, sulphate, 51s. 3d. (1,808s.); phosphate, 44s. 9d. (1,578s.). DIAMORPHINE.—Alkaloid, 60s. 3d. per oz. (2,125s. per kilo); hydrochloride, 54s. 9d. (1,931s.). ETHYLMORPHINE.—Alkaloid, 63s. per oz. (2,222s. per kilo); hydrochloride, 53s. 9d. (1,896s.). MORPHINE. — Alkaloid, bimeconate, tartrate, 60s. 6d. per oz. (2,134s. per kilo); acetate, hydrochloride, sulphate, hydrobromide, 50s. 3d. %(1,773s.).

PARAVERINE.—Synthetic HYDROCHLORIDE

Papaverine.—Synthetic Hydrochloride is offered at 365s. per kilo.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 6d. per lb.

Procaine hydrochloride. — 1-cwt. lots are 30s. per lb.

SILVER SALTS. - NITRATE in 1,000-oz. lots is 4s. 11sd. per oz.; PROTEIN unchanged at from 36s. 3d. to 42s. 9d. and for VITELLIN from 68s. 6d. to 76s. 6d. per lb., as to quantity.

SODIUM CARBONATE.—B.P. exsiccated is 60s. 6d. per cwt.

SODIUM SALICYLATE.—Rates are:—1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s 5½d.; 1-cwt., 3s. 6d.

SODIUM SULPHATE.—Makers' prices for B.P. range from £10 10s, to £16 10s, per ton as to crystal and quantity.

SODIUM THIOSULPHATE. — Makers' price for 1-ton lots in paper-lined bags is £34 per ton.

SIEARATES.—Increased. Prices for minimum 1-ton lots are now as follows:—ALUMINIUM (all grades), 244s. 6d. per cwt.; CALCIUM (precipitated), 222s. 6d.; LEAD (30 per cent.), 229s. 6d.; LITHIUM (ordinary quality), 461s. 6d. MAGNESIUM (standard), 256s. and (superfine) 286s.; ZINC, B.P., 276s. STEARATES.—Increased. Prices for mini-

SULPHOCARBOLATES. — SODIUM PHENOL-SULPHONATE, B.P.C. (powder) is 5s. 6d. per lb. in 1-cwt. lots and ZINC, B.P.C., is 5s. 6d.

SULPHUR. — B.P. PRECIPITATED is £105 per ton, or £110 per ton for 1-cwt. lots. TANNIC ACID.—B.P. levis is 5s. per lb.

TARTARIC ACID. — Rates for the home trade are as follows:—10-cwt. lots, 230s. per cwt.; 5-9-cwt., 232s.; 24-cwt., 234s.; 1-cwt., 235s.

TEREBENE. — For 1-carboy lots, 4s. 2d. per lb. is asked. In winchesters, prices are from 4s. 3½d. to 5s. 2d. per lb.

TEREBINTH.—B.P. is 2s. 3d. per lb.

TERPINEOL. — Prices of B.P. grade are from 3s. to 3s. 6d. per lb., as to quantity.

ZINC OXIDE. — Higher. Rates for B.P. quality are now: 2-ton lots, £125 per ton; 1-ton, £126; 5-cwt., £128; under 5-cwt., £135 delivered.

Alcohol

Prices of plain British spirit per proof gall, are as follows:—

gall. are as follows:—

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended December 31 is 300,000 or over the price is 2s. 9d.; 200,000 and less than 300,000, 2s. 9½d.; 100,000 and less than 200,000, 2s. 10d.; 50,000 and less than 100,000, 2s. 10½d.; 10,000 and less than 50,000, 2s. 11d.; 2,500 and less than 10,000, 2s. 11d.; 2,500 and less than 10,000, 2s. 11d.; 2,500 and less than 10,000, 2s. 11d. 2s. 11d.; 2,500 and less than 10,000, 2s. 11½d. Prices are exclusive of duty and are for tank wagon lots.

are for tank wagon lots.

The following grades are subject to a premium on the above prices as follows:—

Absolute Alcohol, 99.5 per cent., 74.5 o.p., 3d. more per proof gall., the special high strength (99.9 per cent., 75.2 o.p.), 5d. more; Doubly - Rectified Alcohol (S.V.R.), 95.8 per cent., 68 o.p. is 4d. more and P.I. Rectified Alcohol, 96.1 per cent., 68.5 o.p., 8d. more. R.R. Absolute Alcohol (re-rectified, 99.7 per cent., 75 o.p.), 12s. 6d. per bulk gall. net.

Crude Drugs

ACONITE. — Spot supplies of Spanish napellus have been cleared. Nominal value 3s. 9d. per lb., duty paid.

AGAR.—Kobé No. 1 on the spot is unchanged at 16s. 9d. per lb., duty paid. Shipment, 14s. 3d., c.i.f., new-crop.

ALOES. — No offers of prime Cape on the spot or for shipment. Curação is also unobtainable.

Aniseed (star).—Chinese is 180s. per cwt., in bond.

Antimony. — English 99.6 per cent. £222 10s.; 99 per cent., £210 per ton.

Areca Nuts. — Quotations are about 45s. per cwt. for Ceylon material on the spot. Shipment, 35s., c.i.f.

ASAFŒTIDA.—Persian block is from £10 to £14 per cwt., duty paid, as to quality.

BALSAMS.—Quotations (per lb.) are:— Canada: 20s. spot. Copaiba, B.P., 11s. 6d. Peru is 12s. 6d., duty paid; forward de-livery, 11s. 3d., c.i.f. Tolu (genuine as imported), 26s. 6d. spot, and 26s., c.i.f.

BELLADONNA. — Root testing 0.42 per cent. is offered at 2s. per lb. and LEAVES testing 0.514 per cent., at 3s. 6d.

Benzoin.—Sumatra block on the spot is firm at from £27 10s. to £32 per cwt.

CAMPHOR. — B.P. POWDER is 7s. 9d., per lb., duty paid. Offers for shipment are at 6s. 6d. per lb., c.i.f.

CAPSICUMS.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 205s., spot, duty paid.

CARDAMOMS.—Aleppy greens on the spot are 14s. 6d. per lb.; January-February shipment, 12s. 3d., c.i.f.

CASCARA SAGRADA. — Quiet. American 1954 peel for shipment is 220s. per cwt., c.i.f., London; spot, 260s., duty paid.

Cassia Bark. — Whole on the spot is about 90s. per cwt., in bond, and for forward delivery, 81s. 6d., c.i.f. Broken 80s., in bond, and 72s. 6d., c.i.f.

CHILLIES. — Mombasa. Spot supplies offered at 360s. per cwt. and shipment, 350s. per cwt., c.i.f., nominal.

CINNAMON.—Ceylon for shipment (c.i..f) per lb.; OOOO, 5s. 11d.; OOO, 5s. 10d.; OO, 5s. 9d.; O, 5s. 8d.; firsts, 4s.; quillings, 2s. 5½d.; chips, 7d.

COCILLANA. — Value of bark is 3s. per lb. landed, duty paid.

GALANGAL.—Root is quoted at 70s. per cwt., c.i.f., for shipment, and spot, 85s. nominal.

GENTIAN.—French natural on the spot is from 122s, 6d, to 127s, 6d, per cwt., as to holder.

HYDRASTIS. — Root is 18s. per lb., on the spot.

IPECACUANHA. — Colombian resellers for shipment at 65s. per lb., c.i.f. No shipment offers from other sources.

KARAYA. — No. 1 gum on the spot is quoted at 325s. per cwt., and No. 2 at 210s.

KOLA NUTS. — African halves are short on the spot at about 6d. per lb.

MENTHOL.—Chinese is 60s. per lb., duty paid, also in bond and c.i.f. Brazilian afloat, 54s., c.i.f., and spot, 57s. 6d., duty paid.

Mercury. — Nominal spot value is £108 10s, to £110 per flask of 76-lb. exwarehouse.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

NUTMEGS. — West Indian 80's quoted at 3s. per lb. on the spot and 2s. 9d., c.i.f., for shipment.

ORANGE PEEL.—Bitter quarters are offered at 1s. to 1s. 1d. per lb.

Papain. — Spot value for East African grade one is 18s. per lb.

PEPPER.—Market remains firm. White Sarawak on spot is offered at 4s. 3d. to 4s. 3½d. per lb. with afloat parcels quoted at 4s. 1½d. to 4s. 2d., c.i.f. Black Sarawak is 3s. 2d., spot; afloat, 2s. 11d., c.i.f. Black Malabar is now reduced to 425s, per cwt. on the spot and 347s. 6d., c.i.f. for February shipment.

QUASSIA. — Spot quotations for chips are at about 45s.; April-May shipment is about 32s. 6d. per cwt.

RHUBARB. — Chinese is scarce on the spot with offers ranging between 7s. 3d. and 9s. 3d. per lb. as to quality. No offers for shipment.

SAFFRON.—Mancha superior is at about 175s. per lb.

SARSAPARILLA.—Jamaican native red on the spot is unobtainable. A parcel afloat is quoted at 3s. 6d. per lb., c.i.f.

SEEDS. — (Per cwt.). ANISE. — No stocks of Cyprian or Bulgarian available on spot, nominal price is 270s. CARAWAY. —Steady. Dutch old crop is 177s. 6d. and present crop, 175s., duty paid. CELERY.—Indian unchanged with sellers at 152s. 6d. spot. CORIANDER.—Market continues steady. Spot, Morocco is 80s., duty paid (75s., in bond). Danubian, 65s., duty paid (75s., in bond). Danubian, 65s., duty paid, sellers. Shipment, Morocco, January-February is now quoted at 59s. 6d., c.i.f. CUMIN.—Market unchanged. Spot: Morocco is 127s. 6d., duty paid; Cyprian, 125s. Shipment, Cyprian offered at 107s., c.i.f.; Morocco, 108s. 6d., c.i.f. DILL.—Indian is offered at 97s. 6d., spot London. FENNEL.—Quiet. Indian and Chinese quoted at 95s., spot. London. FENUGREEK.—Firm. Morocco is 57s. 6d. spot, duty paid and 48s. 6d., c.i.f., quoted for January-February shipment. Mustard.—English, 80s. to 92s. 6d., according to quality.

SENEGA. — Spot value is 23s. 6d. per lb. with shipment offers at 24s., c.i.f.

SHELLAC.—Fine orange, 455s. to 500s, per cwt.; F.O.T.N., 430s., ex London warehouse. Other grades are nominal.

SLIPPERY ELM. — Grinding quality bark is 2s. 7d. per lb., landed.

STRAMONIUM. — Indian LEAVES are 75s. per cwt., spot. European to arrive is quoted at 80s. landed.

STROPHANTHUS.—Kombé is from 7s. 6d. per lb. on the spot. Gratus is 14s.

Tonka Beans.—Frosted Para are 6s. per lb. nominal, spot.

TURMERIC.—Rajapore sold at 215s. per cwt. on the spot. New-crop Madras finger for March-April shipment is offered at 116s., c.i.f.; April-May, 112s. 6d., c.i.f.

UVA URSI. — Spot offers are about 85s. per cwt.

Valerian.—Indian is 160s. per cwt. on the spot and from 152s. 6d., c.i.f. Belgian, 185s., spot.

Vanillin. — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WAXES. — BEES'—Dar-es-Salaam, spot 520s, per cwt., with January-February shipment, 520s., c.i.f.; Sudanese, 500s., duty paid and 445s., c.i.f.; Abyssinian, spot, 510s., duty paid, and shipment, 445s., c.i.f. Candelilla.—Spot is 570s. per cwt. Forward, 570s., c.i.f. Carnauba.—Prime yellow on the spot is 900s. per cwt., shipment, 815s., c.i.f.; fatty grey is 570s. on the spot; shipment, 540s., c.i.f. Montan.—Reibeck, crude, 115s. per cwt., spot. Spermacett. — Case lots are about 2s. per lb.

Essential and Expressed Oils

Angelica seed.—Price per lb. is now quoted at 260s.

ANISE.—Chinese is quoted at 19s. 6d. per lb. on the spot and 19s. $4\frac{1}{2}$ d., c.i.f.

BAY.—West Indian is 12s. per lb. on the spot.

BERGAMOT. — Spot quotations are now 67s. 6d. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

CANANGA. — Supplies to come forward are quoted at from 55s, per lb., c.i.f. Spot is from 60s. 6d. per lb.

CARAWAY.—English-distilled is offered at 45s, and imported oil at 30s, 6d, per lb.

Cardamom.—Price per lb. is from 370s. for English distilled and 295s. for imported.

CASTOR. — In minimum 2-ton lots the price of pharmaceutical quality for prompt delivery is £121 per ton, naked ex mill. For forward delivery the price is £116.

CEDARWOOD.—Spot quotations for rectified are about 10s, per lb, for smalls.

CHAMOMILE.—English oil is offered at from 270s. to 288s. per lb.

Chenopodium.—l-cwt. lots are 45s. per lb.

CINNAMON. — B.P. oil on the spot is quoted at from 77s. 6d. per lb. English distilled from bark is quoted at 27s. 6d. to 30s. per oz. Ceylon leaf, 13s. per lb., spot.

CITRONELLA. — Ceylon is steady at 8s. per lb. on the spot and 7s. 6d., c.i.f.; Formosan and Java are 12s. 3d. in bond and c.i.f.

CLOVE. — Madagascar leaf is 12s. per lb., duty paid and 10s, 3d., c.i.f., for shipment. Redistilled stem oil from 19s.; distilled bud oil, English, from 37s. 6d. to 40s.; imported, 18s. 6d. to 19s. 6d.

Cod-Liver.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

CORIANDER.—Russian-seed oil is offered at from 100s. per lb.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb. and imported, 57s. 6d.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are offered at from 33s. 6d. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 3d. per lb., and 80 to 85 per cent., 5s. 6d. Spanish, 70 to 75 per cent., 4s. 11d., duty paid.

FENNEL.—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

GARLIC.—English is from 55s. to 60s. per oz.

GERANIUM.—Bourbon is 82s. 6d. per lb. on the spot and Algerian, 76s. 6d.

GINGER. — English-distilled oil is from 150s, to 160s, per lb, Imported oils are available at from 122s, 6d, per lb.

JUNIPER BERRY. — Imported oils are offered from 16s. per lb., duty paid. English-distilled is offered at 75s. to 80s.

LAVANDIN. — Spot is 18s. 3d. per 1b. nominal.

LAVENDER SPIKE.—Spanish is from 13s. 6d. per lb.

LEMON. — B.P. (4 per cent. citral) on the spot is 38s. to 40s. per lb. Sicilian hand pressed, 55s. Californian, 25s. to 40s., c.i.f., as to quality, subject to licence.

LEMONGRASS.—Spot is 17s. 9d. per lb. with shipment at 16s. 9d., c.i.f.

NUTMEG. — English-distilled oil is 35s. per lb. Imported oil is offered at 26s. per lb., duty paid for drum lots.

PALMAROSA.—East Indian is 60s. per lb. on the spot, and 55s., c.i.f. for shipment. Formosan, 37s. 6d., spot.

PEPPERMINT. — Arvensis: Chinese is easier at 44s., spot and 43s. 9d., c.i.f. Italian "Mitcham" type oil is from 72s. 6d. to 80s., spot, and American 52s. 6d. to 59s. 6d.

PIMENTO. — English-distilled nominal with imported at 55s. Rectified leaf (imported), 27s. 6d. per lb. Berry is from 67s. 6d.

PINE.—Punilionis on the spot is from 16s, per lb.; sylvestris, 9s. Siberian (abietis), 11s.

SAGE.—Spanish is offered at from 9s. 3d. per lb. and Dalmatian at 50s., duty paid.

Sandalwood.—Mysore is about 71s. per lb. as to quantity; East Indian 67s. Australasian, 39s.

TITREE.—Small lots are offered at 13s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, FEBRUARY 1: Higher prices are being charged for SODIUM SULPHATE. Brazilian MENTHOL turned decidedly stronger owing to Far-Eastern developments and sold at \$8:00 per lb. (up 25 cents), while the Japanese variety moved to \$17:50 (\$2:50). Formosan CITRONELLA jumped 40 cents to \$2:00, while Ceylon citronella moved up five cents to \$1:25 per lb. Higher per lb. among CRUDE DRUGS was Alexandrian SENNA, with the whole leaf at 17 cents (up one cent), and the siftings at 15 cents (up four cents).

Among ESSENTIAL OILS, CINNAMON LEAF at \$1.75 was up 25 cents per lb,, but PETITGRAIN at \$3.90 and LEMONGRASS at \$2.70, were both down 10 cents. Sales of synthetic detergents in 1954 showed a 10 per cent. increase

over 1953.

TRADE MARKS APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," January 19 For synthetic resins; and catalysts being compounds of synthetic resins for use in manufacture

LAMINAC, 728,797, by American Cyanamid Co., New York, U.S.A.

For waterproofing compounds (not in the nature of paints), and chemical substances for rendering materials resistant to attack by mould or mildew

CELLU-SAN, 732,851, by Darworth, Inc., Connecticut, U.S.A.

For artificial fertilisers (1)
REDOXIT, 732,946, by Lohmann & Co., Kommanditgesellschaft, Cuxhaven, Germany.

For synthetic resins (1)

AQUASOL, 733,575, by British Paints, Ltd., Newcastle-on-Tyne.

For aliphatic oxygen compounds and products containing the same, all for use in industry (1) OXOMER, 733,891, by the Distillers Co., Ltd., also trading as British Industrial Solvents, London, W.1.

For adhesive substances for use in industry (1) ACELAC, 735,350, by Lyons & Thompson, London, N.W.7.

For chemical products included in class 1 (1) ARMEEN, 735,702, ARMID, 735,704, ARQUAD, 735,708, by Armour & Co., Illinois, U.S.A.

For all goods (3)

or all goods (3)
LUZIC, 733,833, by Luzic Société Anonyme,
Paris, France. DELAVELLE ADMIRATION,
735,253, by Delavelle (G,B.), Ltd., London,
N.1. CETAVLEX, 735,929, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For non-medicated toilet preparations (3) BLUE JEANS, 734,801, by Coty (England), Ltd., London, W.I. Device 736,299, by Florogen, Ltd., Mitcham, Surrey, ORLANE, 734,947, by Jean d'Albret, Paris, France, NIGHT CLUB, 736,260, by Florogen, Ltd., Mitcham, Surrey, ORLANE, 736,260, by Florogen, Ltd.,

Mitcham, Surrey.

For soaps (3)

ELEPHANT, 736,800, by J. C. & J. Field, Ltd., Amersham, Bucks.

For all goods (5)
RECELTEST, 734,339, BUMINTEST, 734,340,
DEXTROTEST, 734,343, ICTOTEST, 734,344,
by Ames Co., Inc., Indiana, U.S.A.

For preparations of mineral substances for use as nutritional aids by addition to animal foods (5)

ROSETTE, 724,084, by Albright & Wilson (Ireland), Ltd., Dun Laoghaire, Dublin,

For analgesic preparations (5)
PIPADONE, 732,824, by the
Foundation, Ltd., London, N.W.1. the Wellcome

For bags and receptacles containing insecticides and material impregnated with insecticides all for use on birds to prevent infestation (5) CHIRPY, 735,635, by Associated Fumigators,

Ltd., London, E.16.

For preparations of yeast for veterinary use (5) KITZYME, 736,294, by Phillips Yeast Products, Ltd., London, N.W.10.

For medicated suppositories for use in the treatment of hæmorrhoids (5)

MANZOIDS, 736,768, by E. C. De Witt & Co., Ltd., Croydon, Surrey.

For hypodermic needles (10)

GLYDIN, B734,329, by Shrimpton & Fletcher, Ltd., Birmingham,

For nasal inhalers (10)

ANTAPSAL, 735,687, by Morhams, Ltd., London. W.5.

For hypodermic syringes and needles (10) HEXON, 736,871, OCTON, 736,872, by L. R. Wilson (Instruments), Ltd., Salford, Lancs,

For combs, brushes for the hair, lavatory-brushes and tooth-brushes (20)

POLYFLEX, 734,504, by Rosedale Associated Manufacturers, Ltd., Glam.

From the "Trade Marks Journal," January 26 For lawn fertilisers (1)

EXALAWN, 734,245, by Produx Industries, Ltd., Luton, Bcds.

For common salt for industrial, horticultural and agricultural purposes and for use in preserving

Device of sailor with the wording SIFTA SAM JOLLY GOOD SALT, 726,679, by Palmer Mann & Co., Ltd., London, E.C.4.

For chemical substances included in class 1 for agricultural and horticultural purposes (1)

CERELINE, 734,706, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For zinc galvanising solutions (1)

METALIFE, 734,939, by Southern Metalife, Ltd., Halifax, Yorks,

For chemical preparations for application surfaces to prevent the penetration of dirt (1) DELLAY, 735,046, by Artloom Carpet Co., Inc., Pennsylvania, U.S.A.

For chemical products used in industry, science and photography, and chemical products included in class 1 used in agriculture, horticulture and torestry (1)

BYDAND, 735,551, by Moore Medicinal Products, Ltd., Aberdeen.

For chemical products for use in industry (1) ALDACET, 736,712, ALDAVIN, 736,714, by British Oxygen Co., Ltd., London, S.W.1.

For chemical substances for use in industry (1) MELTISAL, 736,781, by Meldrum Timperley & Co., Ltd., Sale, Ches.

For fertilisers and manures (1)

PELDRILS, 736,822, by Crown Corn Oil Cake and Chemical Manure Co., Ltd., Stoneferry, Hull, Yorks,

For non-mcdicated toilet preparations (3) NESOR, 735,068, by Nesor Products, Ltd., London, E.C.1. BYDAND, 735,552, by Moore Medicinal Products, Ltd., Aberdeen, TIARA, 735,877, by Colloidal Chemists, Ltd., London, S.W.1. QUICKSTEP, 736,042, by Ashe Labor-S.W.I. QUICKSTEP, 736,042, by Ashe Laboratories, Ltd., Leatherhead, Surrey. PERMOCEL, 736,530, by Rushtons (Wholesale), Ltd., Southport, Lancs, SORCERY, 736,563, by Cartier (Perfumers), Ltd., Twickenham, Middlesex. CLEOTON, XYREEN, XYRENE, 736,597-99, by Roche Products, Ltd., Welwyn Garden City, Herts.

For soaps (3)

BRUIN, 737,004, by J. C. & J. Field, Ltd., Amersham, Bucks.

For pharmaceutical quiniue preparations and veterinary preparations, all containing cod-liver oil (5)

PORTOCLO, 731,934, by British Cod Liver Oil (Hull & Grimsby), Ltd., Hull, Yorks.

For medicinal preparations in tablet form for

INFATAB, 732,141, by Parke, Davis & Co., Michigan, U.S.A.

For all goods (5)

PROM, 732,217, by Skip Co., Ltd., Bridgend, Glam, SYNTHOPHTHONE, 733,145, by Lepctit Societa per Azioni, Milan, Italy. Lepctit Societa per Azioni, Milan, Italy. MADRIBON, 736,065, by Roche Products, Ltd., Welwyn Garden City, Herts, THY-MOLODYNE, 736,581, by John Richardson & Co. (Leicester), Ltd., Leicester, SOLPERO, 736,750, by Thomas Wilkinson and Henry 736,750, by Thomas Wilkinson and Henry Wild, Blackpool, Lancs. COMBIQUINE, 736,839, by Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

For pharmaceutical preparations for use in the treatment of the skin (5)
BIOSKIN, 732,350, by Dr. Wurmbock,

BIOSKIN, 732,350, by G.m.b.H., Munich, Germany,

For pharmaceutical preparations and substances

VEMAL, 732,424, by Lavinia Kathleen Davie, Thomas Henry Davies and Marcella Mary Davies, Liverpool, Lancs.

For disinfectants containing pine extract (5) FARMOLA, 732,938, by British Oil and Turpentine Corporation, Ltd., London, S.W.5.

For steroid hormone preparations being pharmacentical preparations (5)

COMPONEF, 733,859, by E. R. Squibb & Sons, Ltd., also trading as E. R. Squibb & Sons, London, W.1.

For amines, amine derivatives and preparations containing them for all pharmaceutical purposes

AMINODROX, 733,799, by S. E. Massengill Co., Tennessee, U.S.A.

PRINT AND PUBLICITY

Advertising Campaigns

H. BUTLER & SON, LTD., 93 Humberstone Gate, Leicester: Caffexen asthma remedy. In Wolverhampton Express and Star.

H. W. CARTER & Co., LTD., Royal Factory, Coleford, Glos: Ribena, In national dailies, weeklies and monthlies,

Hodges & Moss, Ltd., 6 Castle Gates, Shrewsbury: Stylatone piglet anæmia tablets, farming journals.

N.W.I: Glymici jelly, in leading women's magazines, on posters in major provincial towns and on London Transport escalators at principal stations,

SCHOLL MANUFACTURING Co., LTD., 182 St. John Street, London, E.C.1: Surgical hosiery, London evening and provincial daily and evening newspapers.

STEMCO, LTD., 128 Albert Street, Camden Town, London, N.W.1: Flit. In leading daily and Sunday newspapers and in first-class periodicals.

Vocalzone, Ltd., 120 Moorgate, London, E.C.2: Vocalzone throat pastilles. Campaign offering free samples. In the national Press, periodicals, on the London Underground railways and on Radio Luxembourg.

Booklets and Leaflets

CUSSONS, SONS & Co., LTD., 84 Brook Street, Grosvenor Square, London, W.1: "It's Fun Growing Cacti," Pp. 16. To link up with series of six advertisements during 1955, showing various cacti.

DEPARTMENT OF INDUSTRY AND COMMERCE, 7 St. Vincent Street, Port-of-Spain, Trinidad, British West Indies: "Opportunity for Industry, Trinidad and Tobago, Hub of the Americas." Pp. 22. Describes labour and commercial conindustrial and opportunities Trinidad.

JOHN & E. STURGE, LTD., 1 Wheeleys Road, Birmingham, 15: "Sturge Products."

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists. ALLEN & HANBURYS, LTD., Bethnal Green, London, E.2: "Anxine. A New Effective Treatment for Anxiety States" (4-p. folder).

British Schering, Ltd., 229 Kensington High Street, London, W.8: "Albucid Eye Oint-ment" (card); "Neo-Mercazole" (card and blotter).

ELI LILLY & Co., LTD., Basingstoke, Hants: "Therapy with the Barbiturates" (36-p. booklet).

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: "Nobecutane. A New Plastic Wound Dressing," "Bitevan Solution of Vitamin B₁₂" (8-p. booklets).

PHARMACEUTICAL LABORATORIES GEIOV Rhodes, Middleton, Manchester: "Eurax as an Antipruritic Agent" (16-p. booklet).
"Butazolidin in Osteoarthritis," "Butazolidin Geigy," "Taoryl for the Relief of Cough" (4-p. folders).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Tablet Markings, 1955" (6-p. booklet); "Antisepsis with Bruli-dine Dibromo-Propamidine Cream," "Improved Outlook in Hypertension with Ansolysen " (4-p. and 6-p. folders), "Recent Reports on Largactil; Nausea and Vomiting " (4-p. folder); "Largactil, Dosage and Duration of Treatment in Mild Psychoneurotic States''
(2-p. leaflet); "Brevidil M Suxamethonium
Compounds, Brevedil E Suxethonium Bromide" (36-p. booklet).

ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1: "Neurology and Psychiatry" (16-p. booklet); "Becosym," "Dromoran" (blotters).

SHARP & DOHME, LTD., Hoddesdon, He "Penbenemid Suspension" (6-p. folder).

THE BRITISH DRUG HOUSES, LTD., London, N.1:

"B.D.H. Sex Hormone Preparations Dosage
Table," "Myanesin Elixir and Tablets" (4-p. folders); "Tercin Tablets" (blotter),

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, February 7

NOTTINGHAM BRANCHES, PHARMACEUTICAL SOCIETY, and NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Reform Club, Victoria Street, Nottingham, at 7.30 p.m. Mr. R. P. McBride (secretary of the Poisons Board) on "Dangerous Drugs."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Freedom Fields Hospital, Plymouth, at 7.30 p.m., Films on "Varidase," "Aureomycin" and "Folic Acid."

PORTSMOUTH CHEMISTS' ASSOCIATION, Royal Beach Hotel, Southsea, at 7.30 p.m. Mr, A, S. Hughes (chief technical adviser, dermatological section, Scientific Pharmacals, Ltd.) on "Kerodex Industrial Barrier Creams," illustrated by film "Safe Hands," followed by Mrs, Anne M, Bridgen (Innoxa (England), Ltd.) giving a talk and demonstration on beauty preparations.

Reading Branch, Pharmaceutical Society, board room, Thorn Street, Reading, at 7.45 p.m. Mr. C. C. Stevens, M.P.S., Barrister-at-law, on "Some Legal Aspects of Homicide."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Public Library, Beckenham Road, Beckenham, at 8 p.m. Mr. T. Reid (a member of the Society's Council) on "Pharmacy in General."

Tuesday, February 8

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Imperial Hotel, Birmingham, at 8 p.m. Mr. J. C. Bloomfield (a member of the Society's Council) on "Current Pharmaceutical Affairs."

HOUNSLOW BRANCH, PHARMACEUTICAL SOCIETY, Sun Hotel, Hanworth Road, Hounslow, at 8 p.m. Dr. F. E. Camps (Home Office pathologist) on "The Medico-legal Aspects of Poisons,"

NORTH LONDON PHARMACEUTICAL ASSOCIATION and NORTH LONDON BRANCH, NATIONAL PHARMACEUTICAL UNION, Beales Restaurant, Holloway Road, London, N.7, at 7.45 p.m. "Open Forum." Members of the panel: Messis. W. G. Hollis (secretary, Proprietary Association of Great Britain), H. G. Moss (a member of the N.P.U. Executive and of the council of the Proprietary Articles Trade Association, H. Noble (secretary of the N.P.U.) and A. Sterling (chief pharmacist, St. George's Hospital, London, S.W.I).

SUNDERLAND BRANCH, PHARMACEUTICAL SOCIETY, Royal Hotel, South Shields, at 7.30 p.m. Address by Mr, F, H, Oliver (head of the Pharmaceutical Department, Sunderland Technical College).

Wednesday, February 9

BOURNEMOUTH PHARMACEUTICAL ASSOCIATION, Pavilion Ballroom, Bournemouth, at 7 p.m. Annual dinner and dance, Ticket, 21s., from the social secretary, Mr. W. Harley Greaves, 3 Wonderholm Parade, Bournemouth.

FINCHLEY DIVISION, NORTH LONDON PHARMACEU-TICAL ASSOCIATION and NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Bull and Butcher Hotel, Totteridge Corner, Whetstone, at 8 p.m. Stag party.

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Craig's restaurant, 51 Union Street, Glasgow, C.1, at 7.45 p.m. Students' night.

TUNBRIDOE WELLS CHEMISTS' ASSOCIATION, Spa Hotel, Tunbridge Wells, at 8.30 p.m. Annual buffet supper. Ticket, 10s. 6d., from the secretary, Mrs. K. Collins, 76 High Street, Tonbridge, Kent.

WESTERN [LONDON] PHARMACISTS' ASSOCIATION, Bonnington Hotel, Southampton Row, London, W.C.1, at 7.30 p.m., Dr. F. Hartley on "Sex Hormones."

Thursday, February 10

ABERDARE AND MERTHYR BRANCH, PHARMACEUTICAL SOCIETY, Whitehall rooms, Park Hotel, Cardiff, at 7,30 for 8 p.m. Annual dinner and dance. Ticket, 21s., from the social secretary, Mr. E. R. Thomas, 6 Oxford Street, Mountain Ash, Glam.

Bradford Branch, National Pharmaceutical Union, Victoria Hotel, Bradford, at 7.45 p.m. Mr. J. Spaanderman (vice-president, Chemists Federation) on "The C.F. and What it Means to You."

LEEDS BRANCII, PHARMACEUTICAL SOCIETY, Department of Pharmacology, Thoresby Place, Leeds, at 7.45 p.m., Dr. G. A. Mogey on "The Flying Death."

PORTSMOUTH CHEMISTS' ASSOCIATION, Royal Beach Hotel, Southsea, at 7,30 for 8 p.m. "Ladies' Festival" dinner and dance, Ticket, 25s., from Mr. A. J. C. Bull, 87 Bury Road, Alverstoke, Gosport, Hants.

Friday, February 11

GLASGOW EXECUTIVE COUNCIL STAFF WELFARE COMMITTEE, St. Andrew's Halls, Glasgow, at 8 p.m. Whist drive and dance. Ticket, 17s. 6d., from Miss E. Newton, Glasgow

Executive Council, 9 Park Terrace, Glasgow, C.3.
GLASGOW PHARMACY GOLFING SOCIETY, Gordon Hotel, Gordon Street, Glasgow, C.1, at 7 for 7.30 p.m. Annual dinner. Ticket, 18s. 6d., from Mr. A. G. Bannerman, 317 Maryhill Road, Glasgow,

SOCIETY OF COSMETIC CHEMISTS, Royal Society of Tropical Medicine and Hygiene, Manson House, 26 Portland Place, London, W.I., at 7 p.m. Film taken in the Grasse region, showing floral cultivation and subsequent treatment.

Advance Information

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN. A lecture on the British Pharmaceutical Codex, 1954, and National Formulary, 1955, is being given by Dr. K. R. Capper (editor of the Society's scientific publications) at an evening meeting at 17 Bloomsbury Square, London, W.C.1, on February 14.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.—Inclusive Retail Price; *=Tax 25 per cent.

JAMES WOOLLEY SONS & CO., LTD. (from bath soap*

February 1)

Amphetone 10 fl. oz. 4 3 A 20 fl. oz. 8 0 A

The above prices are inclusive of the cost of container. The price of the 80-fl, oz, winchester remains at 24s, plus the cost of the bottle.

 DECLON
 SPONGES, LTD.
 (from February 10)

 Doz.
 I.R.P.

 Declon toilet sponge*
 17 0 2 6 R

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD. (to trade from February 10; to public from March 14)
Garoin tablets 100 5 9 R
500 25 0 R

P.A.T.A. PROTECTED LIST

(Prices notified this week by the Proprietary Articles Trade Association.)

PLOUGH, INCORPORATED (Agents: FASSETT & JOHNSON, LTD.) (correction)
Nujol* 16 oz. 24 0 3 6 A

NEW PRODUCTS AND PACKS BRITISH SCHERING, LTD.

Albucid nasal spray 14 c.c. 3 3 3 4 4

CUSSONS SONS & CO., LTD.

Apple Blossom hand cream†

bath soap* 1 6
toilet soap* 0 9
talcum powder† 2 9
bath cube† 0 6
foundation cream† 3 6

JONATHAN FALLOWFIELD, LTD. (distribu-Water Wizard ion-exchange water purifier 4 6 16 oz. Recharge unit (two for 16-oz, size) 2 0 FLETCHER, FLETCHER & CO., LTD. Doz. 30 0 4½ oz. 4 71 Aperigran* 5 lb. 30 MAY & BAKER, LTD. Amfix ultra-rapid fixer composite pack 5 0 NEW HYGIENE, LTD. Swish lavatory deodorant fitting and block block fitting PFIZER, LTD. 3 6 Tyzanol 10 c.c.

PHILIPS ELECTRICAL, LTD.

Infraphil infra-red lamp

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for January was 195

C	ost	Item	4 oz.	1 oz.	1 dr.
d.	per		s. d.	s. d.	s. d.
164 38 198 97 159 120 186 106 348 61 114 99 87 47 87 62 67 140 54 75 120 114 150 126 198 141	5 gm. 25 gm. 25 gm. 500 gm. 250 gm. 250 gm. 500 gm. 100 gm. 100 mils 250 gm. 250 gm. 250 gm. 250 gm. 25 gm. 25 gm. 25 gm. 25 gm. 25 gm. 250 gm. 25 mils 500 mils	Atropina S1. (4) Benzocaina P1. (8) Camphora natural Capsici fructus pulvis Carminum opt Cera emulsificans Cetomacrogol 1000 B.P.C. Coccus Ext. ipecacuanhæ liquidum Phenacetin. c. caffein. efferves., B.P.C. '34 Infus. buchu conc., B.P.C. Lin. bellad. meth S1. (5) Menthol (natural) Ol. anisi Ol. menthæ pip. redest Ol, myristicae Pulv. lobeliæ co. B.P.C Rhei rhiz. pulv. No. 1 Sennae fruct. Tinnev. No. 1 Spt. menthæ pip. exot Tr. ipecacuanhæ Tr. lobeliæ aetherea Tr. lobeliæ Tr. myrrhae Tr. senegae Vanilla	per	gr. 1 10 1 10 0 1½ 1 1 1 9 4 3 — 1 1 0 0 11 — — 1 2 1 3 0 6 — 1 1 1 0 1 4 1 1 1 1 1 1 1 1	0 5½ 0 11 0 3½ 4 4 0 2 0 3 0 7½ 2 1 0 2 0 2 0 2 2 4 1 8 0 2½ 4 1 8 0 2½ 0 2 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3



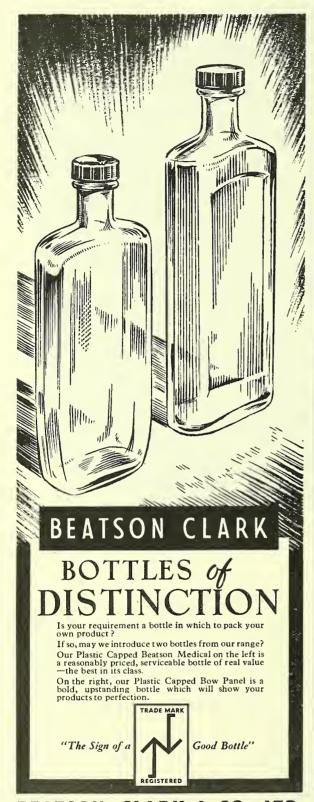
Clearing the Channel

An action firm but gentle, prompt but lasting—that is the requirement when clearing nasal congestion. 'Vasylox', a new vasoconstrictor, meets this need. 'Vasylox' restores free breathing without causing central stimulation, sleep-lessness, or interference with ciliary motility. Neither irritating nor stinging, it may be used for patients of any age, even for infants. 'Vasylox', which contains 0.25 per cent of methoxamine hydrochloride, is issued in 1/2 oz. bottles with separate dropper.





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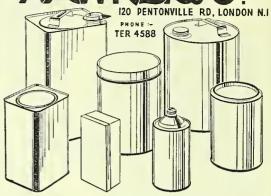
BEATSON, CLARK & CO., LTD.

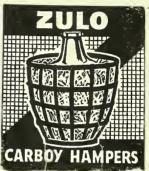
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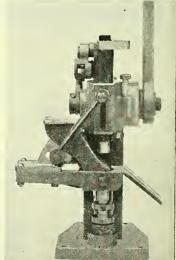
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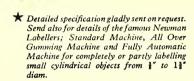
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GUMMING MACHINE

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"ZORBO" (REG'D)

Superfine Cotton Wool

This is a very old Trade Mark of ours and a product for many years in use by the Medical Profession and all those requiring a First Class Superfine Cotton Wool. Now packed in attractive white Cartons in various sizes and would be readily acceptable to your more exacting customers.

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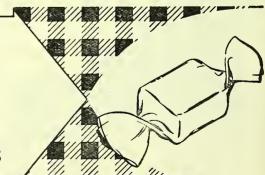
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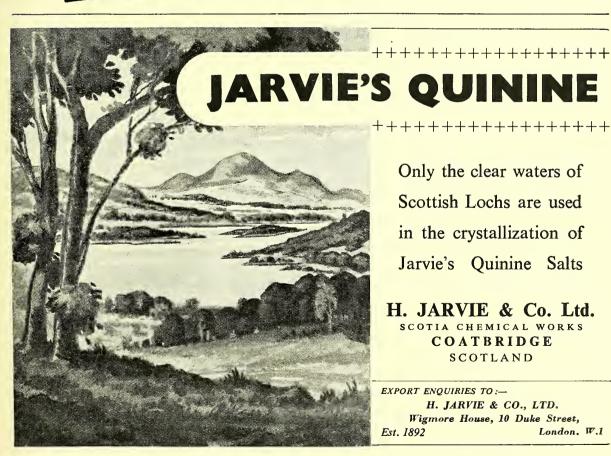
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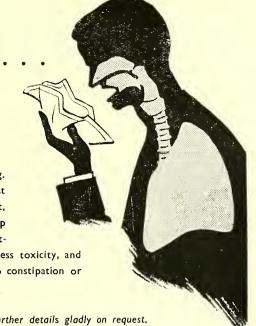
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For irritating or unproductive cough

Syrup Pholcodine (DUNCAN)

Syrup Pholcodine (Duncan)—a palatable syrup containing 8 mg. pholcodine per terspoonful—is particularly effective against coughs due to irritation of the upper respiratory tract, pleuro-pulmonary reflex coughs and nervous coughs. Syrup Pholcodine (Duncan) is advantageous in being pleasantly palatable, of greater depressant action than codeine with much less toxicity, and especially in causing no gastric disturbance and in giving no constipation or





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There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

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CALCIUM and PHOSPHORUS IN MOST ASSIMILATED **FORM** RFADII Y

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Retail Price . . . 3/- per tube

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Spermicidal activity S/4.

- pH value approximating to normal vaginal secretion.
- Cosmetic-type cream base...Nonfriable and tenacious.
- Non-irritant to vaginal mucosa. Non-toxic.
- Inexpensive. Simple in application.
- Approved by the Family Planning Association for use in conjunction with a mechanical barrier.

Medical literature available to Pharmacists on request.

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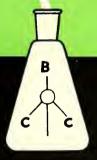
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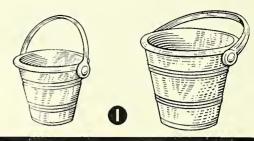
LICHFIELD

STAFFS

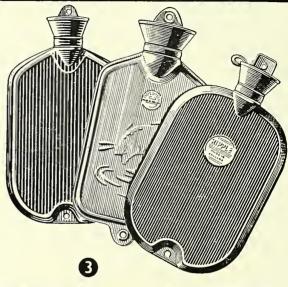
Telephone :- LICHFIELD 2166 (3 lines)

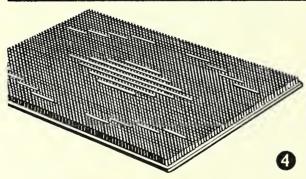
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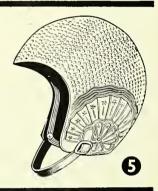


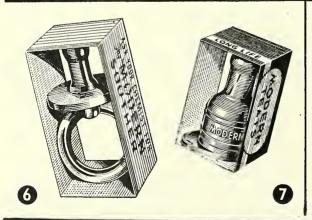






- I RUBBER BUCKETS
- 2 CHILDREN'S HOT-WATER BOTTLES
- 3 HOT-WATER BOTTLES
- 4 MULTI-PURPOSE MAT
- 5 BATHING CAPS
- 6 'MODERN' SOOTHER
- 7 'MODERN' TEAT





The family of Cannon Rubber products is always in creasing. The range includes the world famous MODERN teats and soothers, the CAPITOL series of bathing caps and RIPPLE AND DOLPHIN Hot Water bottles. Popular with children are the NOAH'S ARK ANIMAL and COTTAGE DOLL hot water bottles in novelty boxes. Cannon products give long, safe service and are made of the highest quality rubber.

NEW! Multi-purpose RUBBER MAT in green, blue black or terra-cotta. Sturdy ½-inch rubber brush pile; 20¾ x 14¼ inches. For car, kitchen, door and many other uses.

Also the colourful RUBBER BUCKET. Cannot rust nor scratch child or parent. Gives happy, lasting play-hours while its flexibility permits easy packing.

Order now through your usual Wholesaler.

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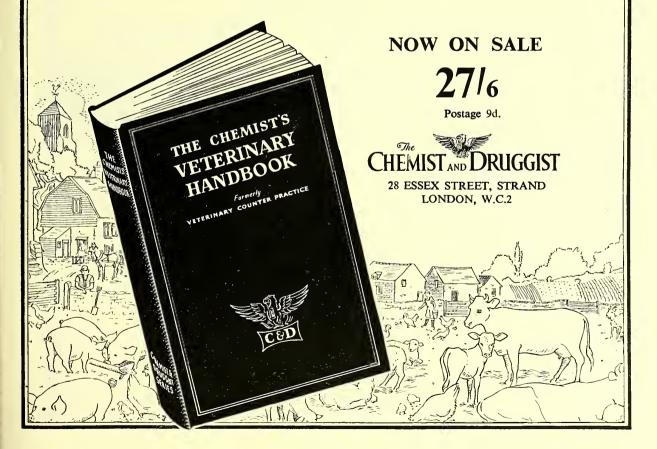


Every country chemist, every chemist with pet-owning customers, needs a copy of this NEW work—

THE CHEMIST'S VETERINARY HANDBOOK

(formerly VETERINARY COUNTER PRACTICE)

The changes that have transformed veterinary medicine, as they have transformed human medicine, are all dealt with in this expertly written book. Its information on animal diseases is up-to-date and adequate for all the purposes of the pharmacist, enabling him to answer the inquiries and meet the requirements of members of the veterinary profession, to dispense their prescriptions, and to handle with knowledge the goods that farmers, poultry keepers, pet owners and animal lovers are accustomed to buy from him.



There are good reasons why sales of



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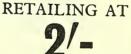
have doubled in 18 months

- * ALL WOOL
- * SUPER-SOFT QUALITY
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And remember Maw's Towels are sold through

CHEMISTS ONLY

Now the new SIZE 'O' SELF SERVICE TRAY



PER DOZEN

With all the same features and precisely the same super-soft quality as Sizes 1 & 2.

Order now

and let this attractive SELF SERVICE TRAY do the selling for you. The new model accommodating all three sizes of Maw's Towels is available FREE on request from our representative.

S. Maw Son & Sons Limited Barnet, England.

Nothing else hut Prestoband!

No, nothing else will do. Like everyone who knows what's what, she *must* have some Prestoband handy! She knows from experience there's nothing as good as this quickest, cleanest, healthiest way of dressing a wound or strapping a muscle. It's easy on, painless off, and no mess left behind! Cash in on our national adver tising now, and keep up with your customers. stock of antiseptic, water resistant, pin-



Generous trade terms. Packed in attractive counter display outers. 3 widths: 2", 1" or 5" at 1/6, 9d. or 7d. a 4-yard roll.

Made by Vernons of Preston. Sole Distributors in the U.K. are Fassett & Johnson Ltd., 86 Clerkenwell Road, London, E.C.1; and in Eire, Fassett & Johnson (Ireland), Ltd., 6 Crow Street, Dublin.

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* sticks to itself, but NOT to the skin!

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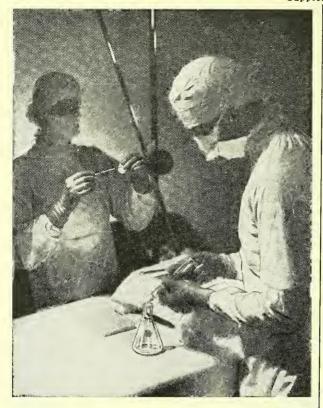
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ILFORD LIMITED · ILFORD · LONDON Trade Showroom: 106/107, High Holborn, London, W.C.I



"I spent a most interesting day yesterday, Sister! . . ."

"... I saw 'PYREX' Precision Bore tubing being re-drawn in the 'PYREX' works."

"The ordinary tubing is carried over a steel mould (a mandril they call it) and is re-heated in the process. It comes out the other side dead accurate to size and shape. And that's the tubing they use for these hypodermic syringes. I'm told it is accurate to four points of decimals."

"Yes, doctor, accuracy is certainly important, but what I find most remarkable is that these 'Pyrex' syringes never crack or break even in the hottest water."

- \blacksquare PYREX Precision Bore Glass Tubing gives exceptional resistance to thermal shock. Normally supplied with a bore tolerance of ± 0.05 mm. (± 0.002 in.), or for special requirements to bore tolerance of ± 0.02 mm. ($\pm 0.008in.)$
 - Special leaflet giving details of lengths and bore sizes gladly sent on application.

'Pyrex' brand laboratory glassware is made only by James A. Jobling & Co. Ltd., Sunderland Large new catalogue FREE Send name, address and position in firm



JAMES A JOBLING & CO LTD

Wear Glass Works Sunderland

THE ONLY MAKERS OF 'PYREX' BRAND GLASS IN THE UNITED KINGDOM

There's no off-season for



BOX'S

INDIGESTION PILLS

The Old Established

Family Remedy

P.A.T.A. Retail Prices: 1/5, 3/4, 5/5, 13/4, 24/2 (incl. tax)

W. H. BOX, 161 KING STREET, PLYMOUTH

Proof brings PROFIT

Thousands of farmers, poultry keepers, veterinary surgeons are now convinced by practical experience that DETHMOR-

WARFARIN is the most effective rodenticide they have ever used.

DETHMOR

Dethmor is the original American Warfarin now manufactured in Great Britain. It has killed

Y A R F A R J R

rats and mice by the million in the United
States and is already acclaimed an outstanding rat and mouse killer in this country.

- 20 times stronger than ordinary Warfarin bait (1 lb. of Dethmor-Warfarin Concentrate makes 20 lb. of bait).
- Virtually harmless to livestock and domestic animals.
- Nationally advertised.
- Brings you 33½% profit.

Retail prices: Tins: 4 lb. 4/-, I lb. 13/6, 7 lb. 73/6 from your wholesaler or direct from

C. F. GERHARDT LTD., 5 Fenchurch St., London, E.C.3

What people think of Flextron

IN LESS THAN A YEAR — SECOND IN THE MARKET!

We introduced Wisdom Flextron toothbrushes some two years ago, and within a year Flextron sales were running higher than those of all other brands except one. Dear Sirs,

2.2.54

You may be interested to learn of my experience with one of your "Flextron" Tooth Brushes—in my opinion it is worthy of recording.

I purchased this brush (Hard bristles) in mid-June last year, after reading your advertisements, and only now after eight months continual use—4 times daily—is it reaching the end of its life. I think the poor old cliap has more than earned its retirement, as the bristles are somewhat flattened, but during all this time not a single one has come out. To me this is positively astonishing, as previously I have tried——, * your earlier brushes, and other makes, and in all cases they have been unusable after two months.

After this experience there will only be one Tooth Brush for me in the future—a "Flextron," and if my next gives me half the service of the one named, I shall be delighted.

I thought you might be glad to read of the success of your new venture, and if you care to use extracts from this letter for advertisement purposes, you may do so provided my name and address are deleted.

*The writer mentions two well-known brands

There is little doubt that this year sales are still going to go on increasing. And remember, when you sell Flextron not only do your customers get a better brush, but you make a better profit.

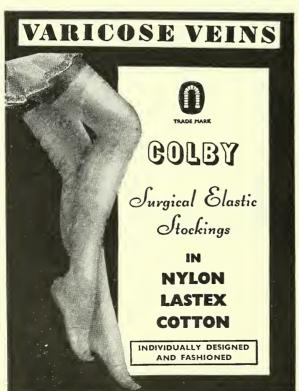
Be wise— Wisdom sell

sell Wisdom

The quickest-selling toothbrush

MADE BY ADDIS LIMITED, BRUSHWORKS, HERTFORD





Write for prices, material, samples, measurement chart and order forms:

COLBY PRODUCTS LIMITED
314 EUSTON ROAD, LONDON, N.W.I





EXPORT

IPECAC RHUBARB CHERRY BARK

and all other Botanicals, Gums, Waxes, Essential Oils and Spices

JOHN KELLYS (LONDON) LTD. 24 OLD BROAD STREET, E.C.2

Telephone: LONdon Wall 4882, 6585 (3 lines)
Telegrams: "Ergotine, Stock, London"

NEW YORK · HAMBURG

February 5, 1955

TO ALL USERS OF GUM TRAGACANTH







consistency



consistently

with











RED CARNATION

BRAND

POWDERED GUM TRAGACANTH

RED CARNATION Powdered Gum Tragacanth has certified viscosity, colour and fineness of powder. The variations and imperfections present in Gum Tragacanth in its natural state have been eliminated. After grading the different types of Gum, Kimptons carefully process it, ensuring that each of the four grades available has standard, unvarying characteristics. You can be sure that every consignment is identical (no need to analyse it before use!). You can also be sure that the Gum Tragacanth you receive will be fresh; and because it is packed in airtight tins it will stay fresh.

WHOLESALE AGENTS FOR SMALL PACKS (4 oz., 8 oz. and 16 oz. tins)

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KIMPTON BROS. LTD. Established 1882 110 FENCHURCH STREET, LONDON, E.C.3 ROYal 5544 (5 lines)



Sell only genuine



ELASTIC NET STOCKINGS

Real Lastonet stockings are always made to measure to ensure a perfect fit. Customers also prefer the feather-weight net which is cool, and stretches in all directions for firm even support. Lastonet discounts, too, are particularly generous! Send today for supply of measurement forms and display material to participate in this brisk trade.

* Guaranteed for 6 months

* Supplied with ordinary National Health prescription LASTONET PRODUCTS LIMITED, CARN BREA, REDRUTH, CORNWALL

Always made to measure



WIDOW WELCH'S FEMALE PILLS

Over 10d BOX PROFIT by ordering I dozen 4/I size. Bonus given on every dozen (13) It pays to push this size.

Established 1787
In the Reign of
King George III

71 DARTMOUTH ROAD, LONDON, S.E.23



February 5, 1955



The lady's using OI. Amygdalæ Dulc. Ang. B.P.

ALMOND OIL has many applications; brilliantine and hair oils, skin preparations, and ear drops.

It is widely used in face creams and cosmetics.

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Now available—A Modern Version of an Old Favourite

The Art of Dispensing

First published 1888 Completely re-written 1953



"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter.

This treatise on the methods and processes involved in compounding medical prescriptions has proved of untold value to generations of pharmacists and may, indeed, be regarded as the classical work on this subject.

Many of the difficulties and perplexities met with in the daily practice of the art and craft of pharmacy are explained in simple yet concise fashion. This book is a necessary part of the equipment of every dispensary.

New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.

Order from your Bookseller or direct from The Publisher:



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Telephone: Perivale 9121 (4 lines)

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When your advice is sought

for bowel irregularity.

The outstanding value of 'Mil-Par' is attributable to its dual action. Stimulus to peristalsis is provided by the osmotic action of 'Milk of Magnesia', while the lubricating effect of the specially selected liquid paraffin content ensures an easy motion without

straining or abdominal discomfort.

'Mil-Par' is particularly suitable for the young infant, the enfeebled, sick and elderly and may confidently be recommended as a genuinely mild evacuant and antacid of proved efficacy.

MIL-PAR?

The other Phillips' Proven Products are:-

'Milk of Magnesia' REGD.

Of unsurpassed efficacy in the treatment of a wide variety of conditions associated with gastric acid disturbances.

'Milk of Magnesia' Tablets

Particularly valuable to the chronic or casual sufferer from dyspepsia and acid indigestion. Pleasantly mint flavoured.

Phillips' Dental Magnesia Toothpaste

A demifrice of proved efficacy in keeping the teeth scrupulously clean. Contains 'Milk of Magnesia' to neutralize harmful mouth acids.

California Syrup of Figs' READ.

Compounded from the natural extracts of senna and figs. A gentle yet efficacious laxative for family use.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179 ACTON VALE, LONDON, W.3.

CLASSIFIED ADVERTISEMENTS

Supplement

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CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

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BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word.

FOR SALE. Pembrokeshire, old-established business, owner retiring. Box C 2100.

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WANTED, Drug store, good premises with dwelling attached, S.W. England, Fullest particulars, agencies held, etc. Box C 2146.

TENDERS

Tenders for lease of new shops on Council Estate invited by Newmarket Urban District Council, Maisonnette above offered to successful tenderer. For details apply, Clerk of the Council, Severals House, Newmarket. C 8043

WEST BROMWICH & DISTRICT HOSPITALS MANAGEMENT COMMITTEE, GROUP NO. 18,

EDWARD STREET, WEST BROMWICH

Tenders are invited for the supply of Drugs and Sundries for twelve months commencing April 1, 1955. Applications for copies of Schedules and Tender Forms should be sent to the Group Supplies Officer, at the above address immediately. Tender Forms will automatically be sent to all firms who have previously tendered.

APPOINTMENTS

18/- per half-inch (min.) and pro rata. Box 2/-

BARNET GENERAL HOSPITAL, WELLHOUSE LANE, BARNET, HERTS

Post-graduate Student (Male or Female)

Applications are invited for the post of Post-graduate Student (male or female) in the Pharmacy Department at this hospital. Candidates must comply with the requirements of the Pharmaceutical Society. Remuneration is at the rate of £350 per annum (plus London Weighting according to age). Applications, stating age, particulars of education, etc., with copies of recent testimonials, to be sent to the Hospital Secretary, as soon as possible.

C 8002

DARLINGTON DISTRICT HOSPITAL MANAGEMENT COMMITTEE Pharmacist or Senior Pharmacist

Applications are invited for this vacancy at the Darlington Memorial Hospital, Salary scale for pharmacist, £450 (age 23) x £25 to £575; for senior pharmacist, £525 x £25

Applications in writing together with names of two referees to the Secretary. C 8057

GERMAN HOSPITAL, LONDON, E.8

Assistant in Dispensing

(experienced) required for the above hospital. Salary on age basis (22 or over £355/£365, rising annually to maximum £465 p.a.). Extra pay if qualified. Apply Group Secretary, Hackney Hospital, London, E.9, immediately. C 8055

LEYTONSTONE (No. 10) HOSPITAL GROUP

Applications are invited from suitably qualified persons for the following posts at Whipps Cross Hospital, London, E.11:—

Pharmacist

Salary according to age and experience within the scale £470 x £25 to £575 per annum, plus London Weighting allowance.

Assistants in Dispensing

Assistants in Dispensing
Commencing salary according to age and experience, but not exceeding £335 per annum at age 22 or over for new entrants to the Health Service, rising to a maximum of £435 per annum. In addition London Weighting allowance is payable. Applicants should be in possession of the Certificate of the Society of Apothecaries of London, or equivalent qualification, in respect of which an additional £15 per annum is payable.

Application forms from the Hospital Secretary to be returned within 14 days of the appearance of this advertisement.

C 8056

WITWATERSRAND TECHNICAL COLLEGE

Director: Dr. A. W. ROWE, M.Sc., M.I.Mech.E., M.I.E.E. SCHOOL OF PHARMACY

Pharmacist

Pharmacist

A vacancy occurs in a large School of Pharmacy for a pharmacist interested in a teaching career in South Africa.

Applicants should be Fellows of the Pharmaceutical Society of Great Britain. Previous teaching experience is not essential. The position should appeal to a young, recently qualified person with a sound education and academic inclinations, who wishes to have the opportunity of specialising in the teaching of pharmaceutics.

Instruction for the "Diploma in Pharmacy" of the South African Pharmacy Board is given through the English medium, and a recent revision of the syllabus will make this Diploma approximate to pass degree standard.

Salary scale: £560 x £25—£860 x £30—£1,100.

Experience and qualifications will determine the commencing notch. A cost of living allowance of £234 per annum is at present payable to married men and provident fund benefits are available

College will pay half salary from date of salling to date of assuming duty, plus reasonable travelling expenses for successful applicant.

Forms of application, which may be obtained

able travening expanses to cant.

Forms of application, which may be obtained from Messrs, Frank Ross & Co. (London), Ltd., 4 Lloyd's Avenue, London, E.C.3, should be completed and submitted by air mail to the Director, Witwatersrand Technical College, P.O. Box 3293, Johannesburg, South Africa, as soon as possible.

C 8035

OLDCHURCH HOSPITAL, ROMFORD, ESSEX Post-graduate Pharmaceutical Student

A vacancy exists for a post-graduate pharma-ceutical student. Salary and conditions of ser-vice in accordance with the Pharmaceutical Whitley Council. Applications should be sent immediately to the Group Secretary at the hospital, C 8054

PHARMACIST

required for
UGANDA GOVERNMENT
MEDICAL DEPARTMENT

MEDICAL DEPARTMENT
on probation for the pensionable establishment. Salary scale (including inducement pay and present temporary allowance of 10 per cent, of salary) £772 rising to £1,498 a year, Commencing salary according to experience, Outfit allowance £30, Free passages, Liberal leave on full salary after each tour of 30/36 months. Arrangements exist for preserving N.H.S, Superannuation rights in approved cases, Candidates must be M.P.S, of Great Britain, Write to the Crown Agents, 4 Millbank, London, S.W.1. State age, name in block letters, full qualifications and experience and quote M3A/34423/CD. C 8065

STOCKPORT AND BUXTON HOSPITAL MANAGEMENT **COMMITTEE** STOCKPORT INFIRMARY, STOCKPORT

Senior Pharmacist

Applications are invited from suitably qualified candidates for the above post which will appeal especially to Pharmacists interested in the manufacture and preparation of sterile products. Salary scale £525 x £25 to £625 per annum, plus £25 per annum if holding a higher qualification.

plus £25 per annuar in March 1955.
The post will fall vacant in March 1955.
Applications, with full particulars, together with copies of two testimonials or names of referees, to the Group Secretary, 59b Shaw Heath, C 8061

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word. Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of two pharmacists (male or female) as branch managers for pharmacies in Doncaster district. Minimum rate £780 per annum; 44-hour week, Applications, giving usual details to Secretary, Doncaster Co-operative Chemists, Ltd., P.O. Box 20, Doncaster.

'UNISEC' from the Single Unit to the Complete Pharmacy RITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING of OLD ST. MYERS 133/S & 141/7 OLD STREET, LONDON, E.C.I.



3 RAVEY ST., BISHOPSGATE, LONDON. E.C.2.

Situations Open—Continued

ENFIELD. Young lady assistant (unqualified) required as dispenser for branch with busy N.H.S. Some previous experience essential. Congenial position with three weeks holiday a year. Apply stating age and details of previous expérience to A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916 for an appointment, C 8001

EXPERIENCED, unqualified assistant required. Mainly for dispensary, Either sex, Permanent congenial post. Apply, with full particulars of experience, etc., S. Sykes, Thomas (Chemists), Waterloo, Huddersfield.

Waterloo, Huddersfield. C 2114
HOLBORN, W.C.I. Young lady required as counter assistant in busy modern pharmacy of the City/West End type. Congenial position with Saturday half-day, Please telephone for appointment or write giving full particulars of age, experience and salary required to J. Milner, M.P.S.. A. R. Cross, Ltd., 240/241 High Holborn, W.C.I. Telephone Holborn 7379.

C 8030

ILFORD. Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well-fitted shop. Adequate assistance. Up-to-date dispensary, Progressive salary with monthly bonus and rota duty payments. Modern maisonette, just redecorated, including three bedrooms, two reception rooms, etc., over branch. Permanency. Apply with full details stating when available for interview to Box C 2140.

LADY DISPENSER/BOOK-KEEPER, quali-LADY DISPENSER/BOOK-REEPER, qualified, required as soon as possible, Semi-tural practice, Furnished rooms available. One dispenser already elsewhere in the practice, Halday, Free Sundays, Send full particulars, Dr. Maurice Lee, Danbury, nr. Chelmsford, C 2122 LANCASTER, Pharmacist (cither sex) required immediately as manager, Salary according to experience. Small, well-established family business in good-class neighbourhood. Apply, with full details and salary required. Swainson, Son & Reynolds, 21 Castle Hill, Lancaster. C 2130

LONDON, E.2 (near City), Qualified assistant, man or woman, for dispensing. Apply, letter only, stating experience, references, salary required, when free, "Chemist," 35 Sydner Road, London, N.16.

NORTH-WEST coastal town. Pharmacist required for middle-class business. Efficient staff, Free living accommodation available. Apply Box C 2107.

NORTH LONDON SURURB. Pharmacist required to manage spacious well-fitted branch with substantial counter trade, Good opportunity for ambitious man to earn top salary together with monthly bonus and rota duty payments. Permanency with superannuation benefits, etc. Apply with full details stating when available for interview to Box C 2141.

which available for interview to Box C 2141.

PHARMACIST REQUIRED, any time in the next month or two, to take full charge of pharmacies in the South London area throughout the summer months, Excellent experience in all types of pharmacies. Permanency or period engagement, Please give all details of previous experience, age and salary required to Managing Director, Arnold M. Gee, Ltd., 12 High Street, Colliers Wood, S.W.19.

C 2145

SHEPHERDS BUSH. Excellent opportunity for ambitious pharmacist to manage modern, beautifully equipped branch close to television studios. Newly built self-contained flat above with all modern conveniences, Generous salary and monthly bonus, Permanency, Apply with full particulars of previous experience and stat-ing when available for interview to Box C 2139.

UNQUALIFIED LADY ASSISTANT. Dispensing experience an advantage but not essential, Congenial position in pleasant surroundings. Write, stating age, experience and salary required to D. L. Morgans, Chemist, Market Street, Abergele, N. Wales. C 2144

THE BIRMINGHAM CO-OPERATIVE SOCI-THE BIRMINGHAM CO-OPERATIVE SOCI-ETY, LIMITED, invites applications from pharmacists for the position of assistant superintendent chemist. Annual sales £246,000. 19 Branches comprising chemist shops and drug stores. Application form and further in-formation supplied on request, Completed application form, endorsed "Assistant Super-intendent Chemist," to be received by the Secretary, Birmingham Co-operative Society, Ltd., High Street, Birmingham, 4, not later than Saturday, February 26, 1955. C 2133

RETAIL (OVERSEAS)

NORTHERN RHODESIA

Increased business and an extensive expansion pol.cv enables a well-established firm of retail and wholesale chemists to offer progressive positions to (a) Pharmacists; (b) Unqualified men. Contributory Pension Scheme, Medical Aid Fund, Free Accommodation.

Accommodation.

LEAVE CONDITIONS:—40 days per annum of which 30 days may be accumulated, with travelling expenses at the rate of £200 (married) and £100 (single) after every 3 years' satisfactory service,

SALARY SCALE:—The minimum per month for the 1st, 2nd, and 3rd year respectively will be:—

QUALIFIED: £80, £90, and £100.

UNQUALIFIED: £55, £65, and £75.

Write in confidence in the first instance,

Write, in confidence, in the first instance, giving fullest details as to age, qualifications, experience, marital status, etc., to:— THE SECRETARY, HOLDSWORTHS (CHEMISTS), LTD., P.O. BOX 20, BROKEN HILL, NORTHERN RHO-DESIA.

WHOLESALE

A WELL-KNOWN COMPANY manufacturing tooth-paste and proprietary medicines, requires an energetic and capable sales representative who is trained in modern sales methods to sell to chemists in North Riding of Yorkshire and South Durham, Applicants should be aged between 25 and 35 years, resident in the area, have some knowledge of selling retail chemists and be willing to undergo any necessary further sales training. This is an opportunity for joining a first-class organisation where a good salary is paid and car and expenses provided, Pension and profit participation schemes in operation. Write stating age and details of experience to Box C 8038.

A WELL-KNOWN PHARMACEUTICAL

age and details of experience to Box C 8038.

A WELL-KNOWN PHARMACEUTICAL house invites applications for the post of representative, to call on doctors, hospitals and chemists in (a) Birminplam, and (b) Manchester areas, The position is one of interest, and offers advancement to the right man, Applicants, who should be men of not more than 35 having some pharmaceutical or medical background, should send full details in the first instance to Box C 8059.

ACCOUNTS DEPARTMENT require young

ACCOUNTS DEPARTMENT require young man with experience of wages, accounts, statistics, etc., as assistant to Secretary of manufacturing chemists S.W. London, Good opening and prospects for a keen and loyal worker. Write stating age, experience and present salary. Apply Box C 8039.

salary. Apply Box C 8039,
ALLEN & HANBURYS, LTD., Ware, Herts, require research chemist, organic, for research laboratories, Candidates should have at least 1st or 2nd class honours, or M.Sc., and should be under 30. Previous experience in organic synthesis desirable but not essential. The position is permanent, progressive and superannuated. Five-day week, Apply Personnel Manager.

ALLEN & HANBURYS, LTD., Ware, Herts, require assistant chemists, preferably of Inter. Science standard, for their organic research laboratories. Opportunity for further study is available. Five-day week. Apply Personnel available. Manager.

ANALYTICAL ASSISTANT for control lab-oratory, 5-day week, Non-contributory pension scheme, Canteen, Chiswick area, Box C 8045.

scheme, Canteen, Chiswick area, Box C 8045, AN OLD-ESTABLISHED FIRM of manufacturing and wholesale chemists in the South Midlands, have a vacancy in their ethical department for a young man (unqualified) with the necessary retail or wholesale experience to take charge of the department. The post offers prospects to a man with initiative and organising ability. Apply in writing, giving full details of career and state whether married or single to Box C 2148

to Box C 2148

APPLICATIONS INVITED from representatives or agents possessing above-average pioneering ability and enthusiasm which the products fully merit (well-known edible proprietaries). Territories available:—(a) Scotland; (b) Lancashire and Cheshire; (c) Yorkshire and Northern Counties, Applicants should be car owners with established connections and the progressive type of men with necessary qualities of alertness and conscientiousness. Remuneration commensurate with these qualities after short probationary period. Fullest particulars in strict confidence, Box C 2143,

BOTTLE TRAVELLER WANTED. Salesman/representative required with previous experience in selling bottles, iars and screw caps. Write giving full particulars to Reliance Trading Co., 13 New College Parade, Finchley Road. London, N.W.3. C7989

London, N.W.3.

CHEMIST REQUIRED by progressive, internationally known firm in Southern England. Degree in chemistry, or equivalent, with some experience in cosmetic and pharmaceutical fields essential, Preferably age 30-40, Salary according to qualifications and experience, but minimum of £1,000 p.a. Rapid progress and bright future for man of ability and real enthusiasm, Write fully to Personnel Manager, Box C 8028.

fully to Personnel Manager, Box C 8028.

EXPORT EXECUTIVE having sound knowledge overseas markets, export procedure, required by C. F. Gerhardt, Ltd., to develop trade in fine chemicals, drugs and certain proprietaries in co-operation with the worldwide organisation of S. B. Penick & Company. New York. Initiative, enthusiasm and drive are necessary. The prospects in this situation are excellent, dependent upon industrious work, acceptance of responsibility and results. Apply giving full details in strict confidence to the Managing Director, C, F. Gerhardt, Ltd., 5 Fenchurch Street, London, E.C.3, marking envelope "Export—Private." C 8052

LONDON PHARMACEUTICAL HOUSE reexperience essential, Good salary and prospects. Write Box C 8071.

MANAGER REQUIRED for small wholesale chemist and hairdressers' sundriesmen, West of England. Good prospects for keen man, Applications with full particulars age, experience, to Box C 2131.

MANUFACTURING CHEMIST in the Midlands require an analytical chemist (male or female), Modern conditions in new building. Permanency and good prospects, Write full particulars to Box C 8062,

PROCESS WORKERS required by manufac-turing chemists S.E. London area for produc-tion of galenicals, Five-day week, Write Box C 8068

TABLET MAKER required for new laboratory. Knowledge of sugar coating an advantage. Good working conditions, Five-day week. Canteen facilities. Write giving particulars of experience and salary required to: The Chief Chemist, The Armour Laboratories, Hampden Park, Eastbourne, Sussex. C 8067

PHARMACEUTICAL LABORATORIES GEIGY

MEDICAL REPRESENTATIVES

Additional medical representatives will shortly be required to contact doctors in the London area and in Yorkshire. The positions call for men of outin Yorkshire. The positions call for men of out-standing ability and character who can work on their own initiative. The situations are most con-genial and we are looking for persons who will make their careers with us. In each case, remu-neration will be above average and a car will be provided. Applications, which will be treated in the strictest confidence, should give full details of age and experience and should be addressed to the Sales Director. Pharmaceutical Laboratories Geign Sales Director, Pharmaceutical Laboratories Geigy Limited, Rhodes, Middleton, Manchester. C 8036

FORMULATION CHEMIST

Genatosan Ltd. (a member of the Fison Group) require a Formulation Chemist; essential qualifications for this senior post are a good knowledge of pharmaceutical specialities, a definite flair for practical formulation and experience in this field. Full scope will be given to successful applicant to exercise initiative and originality. Well equipped laboratories are available. This position calls for a person of integrity, enthusiasm and ability of a high order and the salary offered will be commensurate with these requirements. Applications, giving full particulars of qualifications and experience, to Technical Manager, Genatosan Ltd., Loughborough, Leics.

C 8044

Situations Open—Continued

INTERNATIONALLY FAMOUS toilet house whose products are sold to chemists and allied wholesalers will have three vacancies for salesmen between the ages of 25 and 30 in Wolverhampton, Sheffield, and S.E. London, They must be keen, energetic and of good appearance, anxious to make a career in selling, Some consumer selling experience is desirable although a thorough training will be given. The positions are pensionable, a car is provided, salary and commission paid, All promotions are made from within the organisation. Applicants must be prepared to reside on the territory. These positions offer a good living to those who are prepared to work. Please write giving details of past experience, age, etc., to Box C 8064.

MANUFACTURING CHEMISTS in Midlands require qualified chemist with manufacturing

require qualified chemist with manufacturing and analytical experience, progressive position, Full particulars, stating age, qualifications, ex-perience and salary required to Box C 2113.

MANUFACTURING CHEMISTS REQUIRE female assistant in essence and flavouring department. Interesting and varied work, Good wages, 5-day week, canteen. Apply, in writing, Stafford Allen & Sons, Ltd., 42 Wharf Road, M.I.

N.1. C 8053

MATTHEWS & WILSON, LTD. Vacancies will shortly occur for: 1, Works foreman having some experience in tablet production and capable of planning work of other members of staff and of maintaining discipline, Must be prepared to engage in actual production when necessary. 2. Forewoman for packaging department, to take charge of staff engaged in packaging tablets, etc., in small or large qulantities. 3. Experienced sugar-coater or a young man willing to be trained in tablet coating. Applications should be made in the first instance to the General Manager, at 6/8 Cole Street, S.E.1. C 8070

MEDICAL REPRESENTATIVES. Sandoz Products, Ltd., invite applications from young

Street, S.E.1.

C 80/0

MEDICAL REPRESENTATIVES. Sandoz

Products, Ltd., invite applications from young
men for the immediate appointment of Medical Representative in the following areas:—
(a) Bristol, including Gloucestershire, Somerset, Devon and Cornwall; (b) South Wales,
including South Welsh counties and Herefordshire; (c) North West Glasgow and North
Western Scotland; (d) Oxfordshire, Berkshire,
Buckinghamshire and Northamptonshire, Attractive salary; superamutation scheme in operation.
Thorough training given. Age not exceeding 32. tive salary; superannuation scheme in operation. Thorough training given. Age not exceeding 32, Applicants should be Pharmacists (preferably F.P.S.) or Science Graduates in Chemistry, Physiology or Zoology, Please send full details of age, education, qualifications and experience, with photograph, to Staff Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.1.

OLD-ESTABLISHED company requires representative, already calling on chemists in the London area. Commission basis only. Apply Box C 2132.

PHARMACIST REQUIRED by Pfizer, Ltd., at their Folkestone factory, Previous experience not essential. Excellent prospects. Apply to Chief Pharmacist, Pfizer, Ltd., Folkestone. C 2134

PROCESS WORKER required by S.E. London PROCESS WORKER required by S.E. London manufacturing chemists for manufacturing chemists for manufacturing tolet and pharmaceutical preparations, 5-day week. Apply with full particulars of age, experience, salary required, etc., to Box C 2121. REPRESENTATIVE centred in Manchester district will be required in the near future to call on chemists with well-known brand of medicated pastilles and confectionery in part Lancs and Cheshire. Applicants must be experienced and preferably a strong connection in the area, but not essential, Clean licence. The post is permanent and remuneration is by an attractive salary plus commission and experienced. an attractive salary plus commission and expenses. A superannuation scheme is operative. Apply in first instance with full details including age, Box C 8048.

REPRESENTATIVE REQUIRED by manufacrepresentative Regulated by manufac-turing chemists for South London territory, Experience in selling both pharmaceutical pro-prietaries and standard tablets an advantage, Salary, commission and pension scheme, com-pany's car available. Apply with details of past experience to Box C 2128.

REPRESENTATIVE WANTED to carry additional lines of first quality optically manufactured (not moulded) sunglasses, nightdriving spectacles, etc., by old-established company.

Applicants should have good existing connections with chemists, stores, etc. basis. Box C 2101. Commission

sais. Box C 2101, REQUIRED, a young pharmacist for a position as assistant manager in well-known London factory of manufacturers of pharmaceutical and toilet preparations. The post offers good progress for a man who is keen to make a career for himself in the pharmaceutical industry. Write, stating age, experience and salary required to Box C 8047.

SCOTLAND (SOUTH) representative required by large well-known company marketing established advertised products, Only first-class man with good connections, chemists and stores and resident near Glassow or Edinburgh would be considered, Company car provided, Remuneration, salary, expenses and commission, Please state fullest particulars, in confidence, with first application to Box C 8040.

G. D. SEARLE & CO., LTD., 17 Manchester

G. D. SEARLE & CO., LTD., 17 Manchester Street, London, W.1, pharmaceutical manufacturers of international standing, require representatives possessing enthusiasm for service in various parts of the country. Written applications.

C 8063

WELL-KNOWN perfumery and cosmetic house have vacancy for a first-class representative in the Cheshire, North Wales and North Derbyshire area. Experience of selling to chemists and departmental stores essential, Applicants should have had a good education and be of smart appearance. Please write, giving full details of past experience and age, to Box C 8046

WHOLESALE (OVERSEAS)

WANTED, chemist experienced in the manufacture of contraceptive diaphragms, jellies, foam tablets, sheaths, etc., willing to come to India. Write details and terms in confidence to Box C 2055.

CLERICAL

8/6 for 36 words (min.) then 3d, per word. Box 2/-

EXPERIENCED SHORTHAND-TYPIST required for sales manager pharmaceutical house, W.2 district. Good salary, Phone: Ambassador CR 4 for appointment. C 8072

SITUATIONS WANTED

3/- fo: 18 words (min.) then 2d, per word. Box 1/-

RETAIL (HOME)

MALE, unqualified, 16 years' experience in all branches retail trade, seeks congenial post, Preferably Lincoln, Protestant, Highest refs, Box C 2151.

PART-TIME ASSISTANT in dispensing. Within reach of this address, Elderly, Harries, 3 Hanover Gardens, Kennington, S.E.11, C 2138 PART.TIME

WHOLESALE

CHEMIST (B.Sc.), experienced in industrial pharmaceutics and cosmetics in analytical, works and managerial capacities, seeks progressive post with small London company. Box C 2091.

DRIVER/OWNER A-40 van, good knowledge London, Home Counties, available hire, single job, day, week or contract, Any proposition considered, many years' experience drug trade. Thoroughly reliable. Box C 2150.

FRENCH PHARMACEUTICAL PRODUCTS, doctor, experienced in translating and adapting French publicity material, offers services to British or Continental manufacturers and importers, Box C 2127.

MEDICAL AND/OR PHARMACEUTICAL representative. Experienced, Sound connection. South-western counties. Available now, Box C 2142. PHARMACEUTICAL

MY RECORD in the formulation and production of cosmetics, perfumes, toilet and pharmaceutical preparations covers thirty years and a status of chief chemist to several well-known companies. I desire now to contact a progressive firm, preferably within the Greater London area, where this experience and a service well above the average, can be used to mutual advantage. Box C 2129.

QUALIFIED MEDICAL MAN, not at present in practice, seeks interesting and progressive post where medical knowledge and experience is essential, with a view to permanency if possible. Box C 8051.

REPRESENTATIVE with eight years' experience calling on chemists, wholesale chemists, co-ops, departmental stores, high-class hair-dressers in south-cast England and East Anglia, desires change, Own car and telephone, Minimum potential remuneration £750 per annum. Present address Middlesex. Available at short notice. Excellent references. Box C 2084, SALES MANAGER, F.Comm.A., M.S.M.A., A.11A. aged 32 toilet and cosmetic trade. MY RECORD in the formulation and pro-

SALES MANAGER, F.Comm.A., M.S.M.A., A.I.I.A., aged 32, toilet and cosmetic trade, seeks appointment; qualified administrator, advertising, promotion campaigns, forecasting and budgeting, merchandising from production to final sale. Box C 2093.

TABLET MAKER and sugar coater, seeks situation. Good all-round experience and able to take charge, Apply Box C 2137.

WORKS MANAGER or other executive position. Many years' experience retail and manufacturing. 12 years with present firm, 7 as manager, pills, tablets, etc. Box C 2147.

PHARMACEUTICAL LABORATORIES GEIGY LIMITED

AREA SUPERVISOR

A vacancy will shortly occur for an Area Supervisor to visit medical representatives on their territories in the South of England. The successful applicant will be a Pharmacist, well qualified by experience of representative work and of first class ability; he should preferably be based on Greater London. Terms will be attractive and a car provided.

Applications are invited from senior Representatives with outstanding capabilities, giving full personal details under guarantee of strict confidence to the Sales Director, Pharmaceutical Laboratories Geigy Limited, Rhodes, Middleton, Manchester.

C 8037



-IMPORTANT

Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.

Situations Wanted—Continued

WHOLESALE (OVERSEAS)

INDIA. British manager of pharmaceutical manufacturing and importing company is open for engarement from June next, Eight years' experience of Indian, Far East and Middle East selling and trading conditions. Please apply P.O. Box 6097, Bombay, 5. C 2099

BUSINESS OPPORTUNITIES

17/6 for 36 words (min.) then 4d, per word. Box 2/-

REQUIRED, someone who has a new system, solution or accessories for cold permanent waving. Interviews in strictest confidence. Hanri, 11a Brompton Arcade, Brompton Road, Knightsbridge, London, S.W.3. Phone: Kensington 3559.

STRIP PACKED ASPIRIN TABLETS, B.P., 5 gr. Inquiries solicited, The Dales Tablet Makers, Ltd., Steeton, Yorkshire.

AGENCIES

17/6 for 36 words (min.) then 4d, per word. Box 2/-

AGENTS REQUIRED selling to chemists, etc., to introduce famous Jack Pye's international massage cream, Generous commission terms, Write, giving fullest particulars to Jack Pye Productions, Ltd., Fairbank Road, Bradford, 8,

AGENTS REQUIRED to handle strongly scented prepacked cachou line for wholesale and retail trade on commission basis, Reply by letter, Henry Peter of London (Confy.), Ltd., 6 Park End, South Hill Park, N.W.3.

AGENTS REQUIRED (part-time), car owners preferred, in several areas, to extend sales to hospitals of famous, indispensable plastic articles (branded); start on commission basis. Box C 2136.

DANAD (vitamin A and D) Pearls, Active agents still required for some closed territories within the U.K. Distribution to chemists and bulk consumers, See announcement on page 6. Generous commission. Apply to advertiser.

C 8058.

DELAVELLE require stockist/distributor for N. Ireland to take over existing satisfactory and increasing distribution of their nationally advertised "Blue Orchid" products, "Go" stick deodorant and other toilet articles including "Creamoil," Reply to 38/46 Orsman Road, Kingsland Road, London, N.1. C 8069

M.A.A.—The badge of a good manufacturers' agent, Manufacturers requiring reputable agents are invited to communicate with the Secretary. The Manufacturers' Agents' Association of Great Britain & Ireland (Inc.), Bream's Buildings, E.C.4, Membership available to established agents only, Particulars supplied. C 4

AGENCIES WANTED

8/6 for 36 words (min.) then 3d. per word. Box 2/-

OLD ESTABLISHED FIRM of agents in Eire with 18 wholesale and 1,100 retail chemist accounts open are seeking additional selling and distributing agencies for first-class products. Extensive general connection with over 300 sound wholesale accounts is also available if required. Fullest details on request, Box C 2072.

PAKISTAN. Wanied, agencies for drugs, medicines, chemicals, packing material and allied products, Write Western Trades Co., 38 Lakshami Buildings, Karachi, C 1978

WANTED

17/6 for 36 words (min.) then 4d. per word.

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks. Discontinued lines. Surplus and Redundam Stocks, Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3, C 153

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, ctc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellingston Close, Ledburg Road, London, W.11. Tcl.: Bayswater 4020, 7692.

MEDICAL BOTTLES, tablet bottles, closures and all types of packaging materials purchased, no quantity too large, Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4. Mansion House 3951-2, C 178

MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d, per word. Box 2/-

MODERN CHEMIST SHOPFITTINGS, drug ranges, wall cases and frameless sliding doors, display counters and showcares; all types of window fittings and display stands, D. Mathews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14/16 Manchester Street. Liverpool.

TABLET PRESS, single punch, by Wilkinson.

"BCH" copper jacketed mixer, motorised, Ointment mixer in copper, hand tipping. "Gardner" powder sifter/mixer combined, Bottle filling machines, two-head, for vacuum operation, stainless contact parts. Welding, Son & Co., Saxone Buildings, Tarleton Street, Liverpool, 1.

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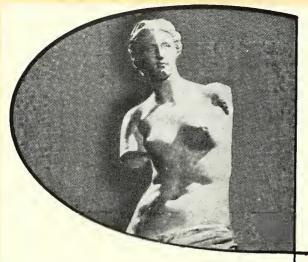
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